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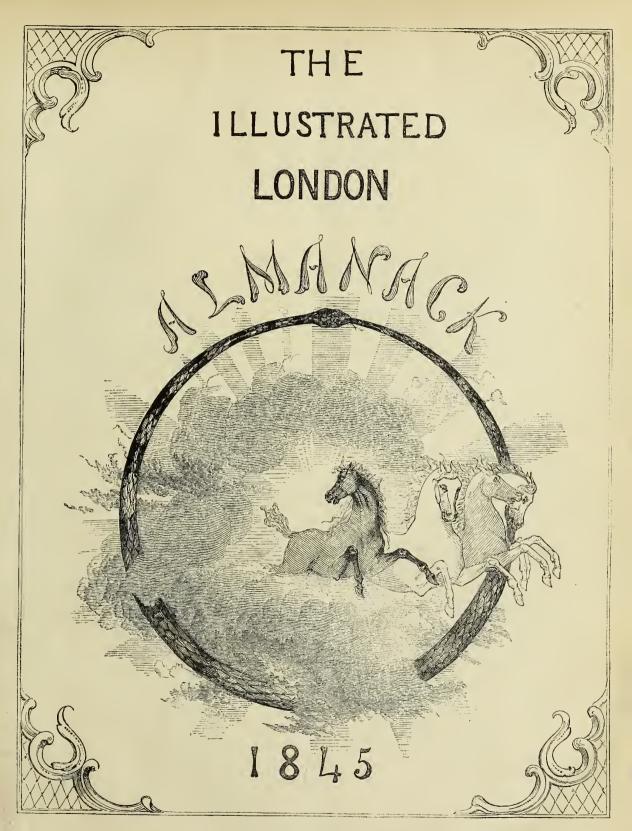
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LONDON:

PUBLISHED AT THE OFFICE OF THE ILLUSTRATED LONDON NEWS, 198. STRAND.

SIXTIETH THOUSAND.



1845-50

THE PRINCIPAL FIXED AND MOVEABLE FEASTS IN THE YEAR OF OUR LORD 1845

IN IME IE	AR OF	001	e rowi) 1845.			
Golden Number .	. 31	Domi	nieal Le	tte=			E
Epact			n Indic			•	3
Solar Cycle : ,	. ~~~	Tulias	Period	11011		٠,	
~	. 01	Juliai	reriod	•			6558
Epiphany	•					Jan	. 6
Martyrdom of King Charles 1			• •				30
Septuagesima Sunday .		••				Jan.	19
Quinquagesima - Shrove Sun	day		'	•	• • •	Feb.	
Ash Wednesday						1 00.	2
Quadragesima-1st Sunday is	n Lent	• •		٠	• •		9
St. David		٠.	٠٠ .			March	
Palm Sunday	•	••	٠ '	•	• •	March	16
St. Patrick	•••		••	••			17
Good Friday	•	••		•	• •		
TASTED SILVED AT	•••		••	• •			21
Annunciation—Lady-Day	•	••		•	• •		23
Low Sunday	••		••	• •			25
St. George	•	••		•	• •		30
Rogation Country	• •		••	• •		April	23
Ascension Day-Holy Thursd		• •		•	• •		27
Pentecost-Whit Sunday	ay		• •			May	1
Tourist Good In the Sunday	•	• •					11
Trinity Sunday	* 4		• •				18
Accession of Queen Victoria		• •					20
Corpus Christi	• •						22
Birth of Queen Victoria							24
Restoration of King Charles 11							29
St. John Baptist Midsumme	r Day					June	
Birth of Dowager Queen Adela	ide					Aug.	
St. Michael Michaelmus Day						Sept.	
Gunpowder Plot			"	••	••		5
St. Andrew				••		1101.	30
Advent Sunday		• •			• •		30
St. Thomas			••	• • •		Das	
Christmas Day	• •	••	• •		• •	Dec.	
							25

The year 5606 of the Jewish Era commences on October 2, 1845. The year 1261 of the Mahommedan Era commences on Jan. 10, 1845. Ramadan (Month of Abstinence observed by the Turks) commences on September 3, 1845.

LAW TERMS, 1845.

Hilary Term	•				Begins Jan 11	Ends Jan. 31.
Easter . Trinity Term	•	,		•	April 15	- May 8.
Michaelmas	•		•		May 22	- June 12.
Michaelings	•	•	•	•	Nov. 2	- Nov. 25.

UNIVERSITY TERMS, 1845.

Terms.	Oxr	ORD.	CAMBRIDGE.					
	Begins.	Ends.	Begins.	Ends.				
Lent	April 2 May 14	March 15 May 10 July 5 Dec. 17	April 2	July 4				

HOLIDAYS KEPT AT PUBLIC OFFICES.

At the BANK, the only holidays in the Dividend Offices are Good Friday and Christmas Day; in the Transfer Offices, besides the above, May 1, and November 1.—EAST INDIA HOUSE AND EXCHEQUER, Good Friday and Christmas Day.—CUSTOM HOUSE, and the several PUBLIC DOCK COMPANIES, Christmas Day and Good Friday, and Her Majesty's Birth Day, May 24.—EXCISE and STAMP OFFICES, the Holidays are the same as in the Customs, with the addition of Whit Monday, Whit Tuesday, and May 29.

TABLE SHOWING THE PRICFS WHICH STOCKS, YIELDING DIFFERENT RATES OF DIVIDEND, SHOULD RESPECTIVELY BEAR, IN ORDER TO YIELD THE SAME RETURN OF INTEREST, AND ALSO THE CORRESPONDING NUMBER OF YEARS' PURCHASE FOR LAND AND PERPETUAL ANNUITIRS.

Interest Yearly.	3 per eent.	3½ per cent.	4 per cent.	5 per cent.	6 per cent.	8 per cent.	10½ p. cent.	Years' Purchase.
£. s. d. 3 0 0 7 3 1 6 3 2 6 3 3 6 3 3 6 3 5 7 3 6 8 3 7 9 3 8 11	100 99 97½ 96 94½ 93 91½ 90 88½ 87	1168 1154 1134 112 1104 1084 1068 105 1034 1014	133 \frac{1}{3} 132 130 128 126 124 122 120 118 116	1663 165 162½ 160 157½ 155 152½ 150 147½ 145				
3 10 2 3 11 5 3 12 9 3 14 1 3 15 6 3 16 11	85½ 84 82½ 81 79½	993 98 961 941 923	114 112 110 108 106	$ \begin{array}{c c} 142\frac{1}{2} \\ 140 \\ 137\frac{1}{2} \\ 135 \\ 132\frac{1}{2} \end{array} $	171 168 165 162 159	228 224 220 216 212	2991 294 2883 2831 2781	28½ 28½ 27½ 27 26¾
3 16 11 3 18 5 4 0 0 4 3 4 4 6 11 4 10 11	78 761 72 69 66	91 894 87½ 84 80½ 77	104 102 100 96 92 88	130 127½ 125 120 115 110	156 153 150 144 138	208 204 200 192 184	273 2673 2621 252 2411	26° 25} 25 24 23
4 15 3 5 0 0 6 0 0 7 10 0 10 0 0	63 60 50 40 30	73½ 70 58¼ 46¾ 35	84 80 663 531 40	105 100 831 663 50	132 126 120 100 80 60	176 168 160 1331 1063	231 2201 210 175 140	22 21 20 163 134

Year's purchase is found by dividing the price of the Stock by the rate per cent., thus £100 ÷3 =33 \frac{1}{2}.

TRANSFERS AND DIVIDENDS OF THE PUBLIC FUNDS.

Name of the Stock.	Days of Transfer.	Due.	Hours.
3 per Cent. Reduced 3½ per Cent. Reduced 3 per Cent. Consuls Con. Long Annuities	Tu — Th Fr — A Tu W Th Fr — Tu W Th Fr — Tu W Th Fr — Tu W Th Fr — J M Tu W Th Fr — J Tu — Th Fr — A	Ditto Ditto an. 5, July 5 pr. 5, Oct. 10 an. 5, July 5	Hours for having, selling, and transferring, from 11 to 1; accepting, from 9 to 3; payment of dividends, from 9 to 11, and from 1 to 3; and 3 per Cent. Consols from 9 to 3 every
3 per Cent. Old Ann. 3 per Cent. NewAnn. 3 per Cent., 1751 East India Stock India Bonds	- Tu - Th - S Ja - Tu - Th - S - Tu - Th - S - Interest due-M	pril 5, Oct. 10 an. 5, July 5 Ditto Ditto ar. 31, Sep.30	day. Transfer, 12 to 1; receiving dividends, 9 to 2.
Hours of Transfer	, at the India House,	, frem 9 to 1, T	uesdays and Thurs-

Hours of Transfer, at the India House, from 9 to 1, Tuesdays and Thursdays; and 9 to 12, Saturdays. Dividends are paid from 9 to 2; Saturdays, from 9 to 1. The Transfer Days at the Bo k and South Sca House are Tucsday, Wednesday, Thursday and Friday.

Tickets for preparing the Transfer of Stock must be given in at each office before one o'clock —At the India House before two.

Private Transfers may be made at other times than as above, the books not being shut, by paying, at the Bauk and India House, 2s. 6d. extra for each Transfer —At the South Sea House, 3s. 6d.

Expense of Transfer in Bank Stock for £25 and under, 9s.; above that sum, 12s.; India Stock for £10 and under, £10 1s.; above that sum, £1 14s. South Sea Stock, if under £100, 9s. 6d.; above that sum, [2s. Powers of Attorney for the Sale or Transfer of Stock to be left at the Bank, &c., for examination one day before they can be acted upon; if for receiving Dividends present them at the time the first Dividend is payable. Probates of Wills, Letters of Administration, and other proofs of decease, must be left at the Bank, &c., for registration, from two to three clear days, exclusive of holidays.

Transfers may be effected on Mondays, by payment of 2s. 6d. each, from 11 to 3 o'clock; but on Saturdays, only till 1 o'clock, at the Bank and South SeaHouse.

Not ex- | Exceeding

		TAOL CY.	Exceeding	4				
	BILL		2 months.	2 months.				
		sd.	s. d.	l				
	d not e	exce	eding £5 $5s$.			1 0	1 6	ı
Above 5 5			20			3 6	2 0	ì
20			30			2 0	2 6	1
30			50			2 6	3 6	i
50			100			3 6	4 6	1
100	,		200			4 6	5 0	!
200			300			5 0	6 0	ì
300			500			6 0	8 6	1
500			1000			8 6	12 6	
1000			2000			12 6	15 0	
2000			3000			15 0	25 0	
Above			3000			25 0	30 0	

BONDS AND MORTGAGES.										
				5.					£	s.
Any sum not exce		£50	1	0	Above 1000					
Above £50 and n						ceeding	ζ	2000	6	0
ceeding		100		10	2000			3000	7	0
100		200	2	0	3000			4000	8	0
200		300	3	0	4000		٠.	5000	9	0
300 ,		500	4	0	5000			10000	12	0
500		1000	5	0						
Bonds, of every 1080 words above the first, 25s. Mortgages, 20s.										

APPRENTICES' INDENTURES. For £200 and under £300 . £14 For £30 and under £50 50 . 100 100 . 200 3 300 400 . 500 . 20 25 500 600

I	ICENSES.		
For Marriage, if special			£5 0
Ditto, if not special		-	0.10
For Bankers		_	20 0
For Pawnbrokers, withi	n the limits of the	ie twopenny po	ost 15 0
Elsewhere —			7 10
For Appraisers			0.10
For Hawkers and Pedla	rs, on foot -	-	4 0
Ditto, with one horse, as	s, or mule -	_	8 0
Selling Beer, to be drunl	k on the Premise	es —	3 3
Ditto, not to be drunk or	the Premiscs	-	1 1

WINDOW TAX.

Duty per Annum.		Windows.	Duty per Annum.	Windows.	Duty per Annum.	Windows.	Duty per Annum.
8 9 10 11 12 13 14 15	£ s. d. 0 16 6 1 1 0 1 8 0 1 16 3 2 4 9 2 13 3 3 1 9 3 10 0	16 17 18 19 20 21 22 23	£ s. d. 3 18 6 4 7 0 4 15 3 5 3 9 5 12 3 6 0 6 6 9 0 6 17 6	24 25 26 27 28 29 30 31	£ s. d. 7 5 9 7 14 3 8 2 9 8 11 0 8 19 6 9 8 0 9 16 3 10 4 9	32 33 34 35 36 37 38 39	£ s. d. 10 13 3 11 1 6 11 10 0 11 18 3 12 6 9 12 15 3 13 3 6 13 12 0

By cap. 17, 3 and 4 Viet., an additional £10 per cent. is improved upon all the Assessed Taxes, Customs, and Excise.



THE MOON.

New Moon 8th 7 12 m.

First Qr 15 8 50 m.

Full Moon 23 2 20 A.

Last Qr. 31 1 55 m. Last Qr.

2 T

3 F 4|S

5 5

6 M

16|TH

Last Qr. 31 155 M.

JANUANY, which now
stands the first in the
calendar, was so placed
by Numa Pompilius
when be added it, together with Februsry,
to Romulus's year: its
mame is supposed to be
derived from the Latin
word janua a sate: name is supposed to be derived from the Latin word janua, a gate; and as Janus was considered by the Romans to preside over the gates of heaven, the supposed to bave reference to the opening of a new era, or renewal of time. The Saxons denominated this month Wolfmonth, on account of toe famished wolves that then invaded their villages. The term monat, or month, applied to each of the twelve divisions of the year is also derived from them.

FIRM—Barbel, brill, 19

	Feast of the Circumcision—Official with Treating, 1001	0	7	•	-		i
	Edmund Burke born, 1730—Lavater died, 1801		3			22	L
п	Tucien Buonaparte brother of the Emperor of France	8 8	3	4	2		١
	sought a refuge in England, 1811—General Monk died, 1640	0 6		4	2	24	
	Roger Ascham died, 1568	8 ()	4	-	_	Ш
	2ND SUN, AFT. CHRISTMAS—Duke of York died, 182/	8 8	8	4		25	
ľ	The Eninhang from the Greek Επιφάνεια, an Appear-	8	7	4	5	26	
L	Apposition is kent in commemoration of the manifestation of our						١
	Saviour to the Gentiles, and was first observed a D. 813-Old Christmas Day	ł					

7 Tu Fenelon d. 1715—Princess Charlotte of Wales b. 1796 8 St. Lucian, the first named saint in the Romish Calen-8 9 TH Archbishop Laud beheaded 1645—Cape of Good 8
Hope taken, 1800

James Watt born, 1736—Linnæus died, 1778—Royal 8
Exchange burnt, 1833—The Bude Light first publicly used in London, 1842 Hilary Term begins lst Šun. aft. Epiph.—Outbreak at Sheffield, 1840|8 Plough Monday—the day derives its appellation from 8

the custom of the pessastry returning to their labours after the festivities of Christmas. The morning was devoted to the examination of their ploughs and implements, and with the day ended the pastimes of the season—C. J. Fox born, 1749—Cambridge Term begins 14 Tu Oxford Term begins Queen Eliz. c. at Westminster, 1559—Dr. Aikin d.1747

Gibbon died, 1794—Battle of Corunna, 1809 Robin Hood died, 1274—Dr. Franklin born, 1706-First stone of the New Royal Exchangelaid by Prince Albert, 1842

St. Prisca martyred, A.D. 47

St. Falian martyred, A.D. 251—American Indepen-7 56 4 26 12 A.D. 306—New South Walcs 7 55 4 28 13

rived from them.

IN SEASON.

Fish.—Barbel, brill, carp, coc les, code, cels, haddocs, her, rungs, ling lobsters, level, passes, shrimps, skate, smelts, anders, woodcocks.

MEAT.—Mutton, veal, house-lamb, pork, renison, and hrawn.

POULTRY.—Turkers, capons, pullets, fowls, tame pigeons, and rabbits.

GAME.—Grouse, prass, and rabb 7 51 4 35 17

Vegerandes.

Discrecole. or Scotch
Borcecole. or Scotch
Borcecole. or Scotch
Eale, brocoli, cardoons, 28
TU Admiral Byngshot by sentence of a Court Martial, 1757 7 47 4 40 20
Eale, brocoli, cardoons, 29
W Swedenbourgh born, 1689—George III. died in the
Fault.—Prunc.nail, and train your goose-berries, currents, and raspberries, letting your figs remain until pril.

TH Charles I beheaded at Whitehall, 1648
Hilary Term ends—Guido Fawkes executed, 1606— 7 43 4 45 (
Frost and others transported for the rious at Newport, 1840

8

5

64

4 4 14

3 4 15

2|4|17

1 4 18 0 4 20

59 4 21

58 4 23 10

54 4 30 14

53 4 31 0

52 4 33 16

-7 50 4 36 18

57 4 24 11 11

0 41

42 3

3 49

4 56 5

9 6

49

37

13 5

31

7 6 54

3

Birsh.—The month of January, if not clad in snows and icicles, is generally borne on the wings of the tempest. Various tribes of birds flock round flow the control of the 26 0 32

Things to be Remembered in January. -That the County and Bo-cough Sessions are held hetween the 2nd and 15th of the month. Policies of Insurance due at Christmas must be paid before the 8th, on which day the January dividend is anything at the Bank. 19 on which day to January dividend payable at the Bank

JANUARY, 1845.

SONNET.

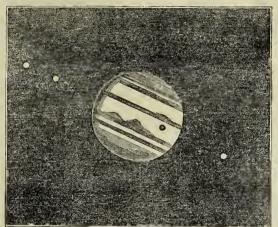
SONNET.

GATE of the year! where would'st thou lead us now? On still through Winter's path?—or wilt, ere long, Thaw the cold icicles that point thy brow, And wend us to a way of woodland song And Spring-time, flow r-embroider'd road of light? Art thou like Susas's portals, which disclose Unto the Alpine traveller, the sight, All suddenly, of fair Italia's rose And vine, and honeysuckle interlac'd? Or has December left a will behind That thou should'ston perpetuate his snows, And make the year like that he left, a waste? Is not young Spring a wooer warm and kind—Wilt not for her thy rigid locks unbind **

W.

ASTRONOMICAL APPEARANCES.

THE frosty nights of January are usually favourable for astronomical observations. So "resplendent in brightness" are the hosts of heaven on such occasions, they should be embraced with more than ordinary zeal by every student of the works of God



From careful calculations we find, at the commencement of this month, the planet Mercury will he visible near the western horizon about half-anhour after the setting of the sun. Saturn may be seen (if the air should be very clear) a few degrees above him. But the most interesting planet at this time is Jupiter; for throughout this month, during the evenings, he will deck the southern and western heavens with his majestic rays, when his belts and satellites will interest and instruct the telescopic observer. The cut at the head of this column is a view of Jupiter, with his luminous attendants, as he will appear at 30 minutes past 6 o'clock in the evening of the 10th. But it also exhibits a phenomenon of frequent occurrence through the year, for a view of which, youthful and amateur observers should be on the alert. We allude to a transit of one of Jupiter's satellites across the face of the planet. These satellites or "moons" are four in number, and as they perform their several revolutions in different periods, their relative positions are of course infinitely varied; but they are generally arranged nearly in a straight line with an oblique direction. Sometimes two of them are seen on one side of the planet, and two on another; sometimes two of the mare seen on one side of the planet, and two on another; sometimes two of the mare seen on one side of the planet, and two on another; sometimes two on the mare seen on one side of the planet, and two on another; sometimes two on the mare seen on one side of the planet, and two on another; sometimes two of them are seen on one side of the planet, and two on another; sometimes two on the mare seen on one side of the planet, and two on another; sometimes two on the mare seen on one side of the planet, and two on another; sometimes two on the mare seen on one side of the planet, and two on another; sometimes two one another; sometimes two one are seen on one side of the planet.



shadow of Jupiter; and sometimes two of them are seen on one side of the planet, and two on another; sometimes two only are visible, while the other two are eclipsed either by the body or the sin a straight line from the planet, in the order of their respective distances. In the cut two are shown on the left side; one like a black ball on the face of the planet; and one on the right side of the planet.

On the 2nd day of this month, the first satellite will be eclipsed.
On the 12th, the second satellite.
On the 18th, the first.
On the 19th, the second.
On the 10th day of themonth, as shown in the cut, the first satellite will pass over the face of the planet.
On the 20th, the second will make a similar transit.

similar transit.

In addition to these phenomena, the progress of a shadow on the face of the planet, from one of the satellites, forms

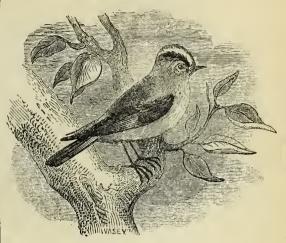
planet, from one of the satellites, forms in interesting spectacle.

The eclipses of Jupiter's satellites furnish navigators with the most important signals for determining the longitude of places on the earth. Tables of them are accordingly inserted in the Royal Nautical Almanack.

Mars is to be seen in the south-east before sunrise: on the morning of the 4th, he will appear in the neighbourhood of the crescent moon, according to the accompanying illustration, which is drawn to correspond with a view by the naked eye. Venus is a splendid object at day-break, and may be readily identified by her excessive brightness. On the 6th, she will appear as the oomely harbinger of morn, in the neighbournood of our satellite, as exhibited in the subjoined illustration.

NOTICES ON NATURAL HISTORY, &c.

JANUARY.



GOLDEN CRESTED REGULUS.

THIS curious little bird delights in the largest trees, such as oaks, elms, talpines, and firs, particularly the first, in which it finds both food and shelter in these it builds its nest, which is suspended from a branch by a kind of cordage made of the materials of which the nest is chiefly composed; it is of an oblong form, having an aperture on one side, and is made principally of moss, lined with the softest down, mixed with slender filaments; the female lays six or seven eggs, scarcely larger than peas, which are white, sprinkled with very small spots of a dull colour. These birds are very acile, and are almost continually in motion, fluttering from branch to branch, creeping on all sides of the trees, clinging to them in every situation, and often hanging like the titmouse. Their food consists chiefly of the smallest insects, which they find in the crevices of the bark of trees, or catch nimbly on the wing; they also eat the eggs of insects, small worms, and various sorts of seeds.

They remain in this country all the year through, and are even observed to be more numerous in the winter than in the summer.

Colonel Montagu, who timed the visits of a female to her nest of eight young ones which he kept in his room, found that she came once in each minute and a half, or two minutes, or, upon an average, thirty-six times in an hour; and this continued full sixteen hours in a day. The male would not venture into the room; yet the female would feed her young while the nest was held in the hand.

The month of January, if not clad in snows and iciclea, is generally borne on the wings of the tempeat. Various tribes of birds flock round farm houses and out buildings in search of food. The thrush is seen under sunny hedges and southern walls in pursuit of snails, which he destroys in abundance, particularly in hard winters. The nuthatch is heard, and lanks congregate and fly to the warm stubble for shelter. Field-fares and finches are seen in flocks.

When the temperature of the air becomes so low that vegetable life would be in danger of destruction, the moisture which was held suspended in the atmosphere is let fall in the shape of snow, and so deposited on the surface in a succession of strata or layers, which form the warmest mantle which could be thrown over the earth to guard and preserve her offspring. The air which is interposed or held captive between each layer is a very bad conductor of heat, and at once prevents the internal warmth of the carth from escaping, and the external cold from reaching the insects, animals, and, above all, the plants. In the colder regions the fur of hares and other animals undergoes a chango which renders it a most perfect protection against the severity of the weather. For food, hares and birds are often reduced to great extremities; and at this season we see many animals, which at other times regard man as their natural enemy, hetake themselves to him for succour and protection. The kindly habits of the robin-redbreast in this way are familiar to all; and it strives to reward man, for any little crumbs bestowed upon it, by a grateful song, which not even the storms and cold of this mooth can silence. Nor in the unceasing perseverance with which the robin endeavours to cheer us is it quite alone; for if we go out into the woods, we shall bear the woodlark mingling its notes with the blast and with the creaking and murmuring of the branches.

of the branches.

When the weather is not very cold, this period of the year is favourable for some of the operations of agriculture, such as conveying manure to the fields, repairing hedges, putting trenches and ditches in a good condition, aud examining and improving the state of the farming implements.

ST. PAUL'S DAY (Jan. 25) has been vulgarly esteemed ominous of the weather of the year; hence, an old proverb saya-

gyear; hence, an old proverb saya—

If St. Paul's Day day be fair and cleare,
It doth bettide a happy yeare;
But if by chance it then should raine,
It will make deare all kinds of graine:
And if the clouds make dark the skie,
Then neate and fowles this year sball die;
If blustering winds do blow aloft,
Then wars shall trouble the realm full oft.
All superstition from thy breast repel,
Let cred'lous boys and prattling nurses tell
How, if the Festival of Paul be clear,
Plenty from liberal horn sball strew the year,
When the dark skies dissolve in snow or rain,
The labouring bind shall yoke the steer in vain,
But if the threatening winds in tempests roar,
Then War shall bathe her wasteful sword in gore.
Let no auch vulgar tales debase tby mind,
Nor Paul, nor Swithin, rule the clouds and wind.



New Moon 6th	6 3 A.
First Qr. 14	4 59 M.
Full Moon 22	6 46 M.
FEBRUARY	is so
named from	Februa,

named from Februara, Februaca, or Februaris, names of Juno, to whom the Romans were accustomed to ofter sacrifice. Our ofter sacrifice. Our Saxon ancestors designated it Sprout-kele, because the kale or cole-wort then began to sprout; an event of much importance in those days, it being the chief sustemance to the husbandman and the husbandman, and the husbandman, and the water in which it was boiled was a common medicine with them, as well as with the Romans. In later times they called this Sol-monath, or l'ancake-month, before the solution of the soluti l'ancake-month, be-cause cakes were of-fered to the sun.

Thingsto be remembered in February — Candlemas-day is on the 2nd. Shrove Tuesday on the 4th. Valentine's-day on the 14th. Anglers should set their tackle in order.

IN SEASON.

IN SEASON.

Fish — Barble (the spawn of this fish is poisonous), brill, carp, cockles, cod, crabs, dabbs, dace, cels, flounders, haddocks, herrings, ling, lobsters, mussels, opsiers, perch, pike, place, saluon, shrimps, skate, suelis, soles, tench, turbet, whiting.

Mear and Pountray as in January, with the addition of cuickens and ducklings, which are now to be bught at high prices; though they are best when they are cheapest.

Game — Hares and wild fowl.

Yestranics — Brocoil, lecks, paraley (and throughte) earl, paraups.

Flowers.— If the works, we wild

2ND SUNDAY IN LENT

Galileo born, 1564

Martin Luther died, 1546

Flowcas.—It the woather be mild, a walk in the garden will discover to many pleasing objects; among these the botanist and admirer of nature's beauties will not consider the modest snow drop beneath his notice. Luninstanus is still in blossom; the buds of the like tree are forward. Crocuses are in blow.

Archbishop Cranmer burnt, 1556
Sir Joshua Reynolds died, 1792
3 RD SUNDAY IN LENT
St. Matthias, Apostle and Martyr, beheaded A.B.—Duke of Cambridge born, 1774
Earl of Essex beh. 1601—St. Christ. Wren d. 1
Napoleon embarked from Elba, 1815—J. P. F. died, 1823.
Hare hunting ends—Dr. Arbuthnot died, 1735
Montaigne born, 1533—Lord Ellenborough arr India, and was immediately proclaimed Governor general, 1842

ı	17			KI	3 6 8	OFTS.	AGB	mand	ge, m	orn. 8	cev.	П
	1	$\overline{\mathbf{S}}$	Partridge shooting ends—York Cathedral fired, 1829 —The fortifications of Paris voted by the French Chambers, 1841	7	41	4 47	$\overline{24}$	7	45	8	19	
1	2	S	QUINQUAGESIMA, OR SHROVE SUNDAY—so called	7	40	4 49	25	8	59	9	42	ı
		50-3	from the preter tense of the Saxon verb to shrite, i.e. to confess preparatory to the more religious observance of Lent—Prior to the Reformation every commu- nicant throughout the kingdom was obliged, individually, to confess to his parish priest on this day—Purification, or Candlemas, a festival instituted in honour of the B.V. Mary							•		
	3	M	St. Blaise, an Armenian Bishop, patron of Woolcombers, martyred under Dioclesian. A.D. 289		38	4 51	26	10	27	11	12	
ı	4	Т	Shrove Tuesday—After the required confession had	7	371	4 53	27	11	53	-	_	
			been made on the preceding Sunday the people were permitted to indulge in festive anusements, although not allowed to partake of flesh. Hence arose the custom of eating pancakes and fritters on Shrove-tide. On this day of authorized indulgence all kinds of recreation were permitted, and the now exploded diversions of cock-fighting and cock-throwing was in much repute. The origin of the latter brutal custom is traced to a couspiracy against the Dancs, which was rendered abortive, by the crowing of some cocks, and the English to revenge their disappointment, instituted the custom of knocking them on the head on Shrove Tnesday, the day on which it happened—Stoppage of the United States Bank, and suspension of the Philiadelphia Banks, 1840									
l	5	W	Ash Wednesday—Lent begins—This day was con-	7	35	4 54	ဂ္ဂ	0	26	1		
ì	U	''	apicuous in the history of the Ancient Church for the severity of discipline exercised on penitents. The name is derived from the sprinkling of ashes upon	′	00,	4 94	20	U	20	1	U	
l			the offenders-St. Agatha martyred under Decius, A.D 282-Sir R. Peel b., 1788									
	6	Тп	Dr. Priestley died, 1804 [1587]	7	33	4 56	0	1	28	1	53	
	7	F	Mary Queen of Scots beheaded at Fotheringay Castle,	7	32	4 58	1	2	18	2	40	
Ì	8	S	First Meeting in London of the Anti-Corn Law Asso-		30		2	3	3		24	
Į	9	S	Quadragesima—1st Sunday in Lent	7	28	5 9	3	3	44	4	3	
1	10		Queen Vietoria married, 1840—Henry Lord Darnley,		$\frac{26}{26}$		4	4	24	1	49	
1	10	141	2nd husband of Mary Queen of Scotland, and father of James I. of England, murdered 1567-Property Tax abolished, 1815	′	20%	9 4	-1	-1	2-1	4	42	
	11	T	Washington born, 1723—Shenstone died, 1763	7	25	5 5	5	5	1	5	19	
ł	12	W	Lady Jane Grey and her husband beheaded in the	7	23	5 7	6	5	35	5	54	
ı			Tower, 1554	_					i		-	
	13	Tn	Massaere of Gleneoe, 1691—Sir William Blackstone died, 1780—Duc de Berri assassinated, 1821			_	7	6	13	6	30	
ļ	14	F	St. Valentine, a Bishop, martyred under Claudius, A.D.	7	19	5 11	D	6	52	7	12	
			27!—The origin of "choosing a valentine" is involved in obscurity, though sup- posed to have grown out of the Pagan custom of farawing the names of girls, in honour of Juno, on this day—Captain Cooke killed at Owyhee, 1779—First Quaker took his seat in Parliament as member for Durham, 1833									
	15	S	The National Debt commenced, 1500, amounted in 1841 to 772 millions sterling; the cost of management alone amounting to £28,556,324 198. 034.	7	17	5 13	9	7	38	8	7	
			T				1					

Battle of St. Albans, 1461—Michael Angelo died, 1564 7 13 5 16 11 10 8 10 51

Voltaire born, 1694—Duke of Suffolk beheaded, 15547

St. Matthias, Apostle and Martyr, beheaded A.D. 62-

-Duke of Cambridge born, 1774 Earl of Essex beh. 1601—St. Christ. Wren d. 1723

India, and was immediately proclaimed Governor general, 1842

Napoleon embarked from Elba, 1815-J. P. Kemble 6 55 5 33 20

Montaigne born, 1533—Lord Ellenborough arrived in 6 51 5 36 22

7 11 5 18 12 11 31

9 5 20 13 0

5 5 24 15 2 5 25 O

1 5 27 17

6 59 5 29 18

6 57 5 31 19

6 53 5 34 21

7 5 22 14 1 1

1 41 2 19

2 53

4 34

6

3 26

3 58

5

Faurr.—The prun-ing of fruit trees should now he com-pleted; all blosome, particularly the apri-cot, should he pro-tected now; ferns, ly being thrust by their leaf stalks under the branches of the Irece, will form a mort exce-lent covering for apri-cot trees particularly, and they should not be taken off until the fruit is as big as a hazel nut.

BINES.—The wood-lark commences his sweet lays; the hlack-bird and cong thrush are heard. The chaf-finch and hrdge spa-row sing, and our o d friend the Rohin cheets friend the Rohin cheess us with his song The most conspicuous of early insects is the in-defaticable bye. Up-ou the hresking up of the frost, snipes quit the marshes, and take to the moor and downs.

Kitchen Garden.

—All the ground which is destined for early crops nust now be prepared, and hotbeds he multiplied for encumbers and early melons. Celery may he sown on a moderate hot bed; also sow cabbages, curied parsley again (for transplanting); horn carrots, lettuces, lies, paranips, and in fact most of the table regetables. Those plants, such as cabbages, charten, such as cabbages, and an fact and herecadish, which are 8t, should now be transplanted. 7 15 5 14 10 8 43 9 25

9 25
10 51
Tun Fram.—Thrash out corn, work the plough, and dress of the laud be dry enough.
1 22 and sint-foin. Break own beans, veiches, and sint-foin. Break to your live stock:
3 9 clean, and disperse muck lumps; pick and carry 2 36 of stones. Look well to your live stock:
3 9 clean, and dry. Dig grounds. Cut timber and manure bop grounds. Cut timber if required, poplars, and manure bog soiers, and willows. Lay fallows, in ridges to throw up hillocks.

w.

FEBRUARY, 1845.

SONNET.

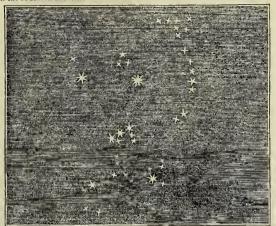
At length grim Auster with his snowy head
And gloomy countenance, and sable wings.
Forth from the cave of Edula heath sped
And o'er the land his varied winter flings. And o er the land his varied winter lings. Along the pathway of the storm he wends, Sometimes euwrapt deep in his dusky clouds. Anon a treach rous sun-beam forth he sends, And the next moment all again ensbrouds—With scudding mists he hides the mournful mean. That weeps behind them for a glimpse of earth, Then for a while reveals her, and as soon
Makes the Night dark as ere Creation's birth.
Thus 'tis with Man—now bright—now dim appear
The hopes and joys of each succeeding year!

ASTRONOMICAL APPEARANCES.

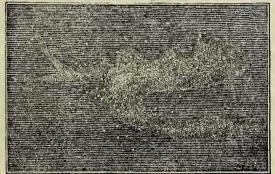
"Orion's beams! Orion's beams!

His star, germmed belt, and sbining blade;
His isles of light, bis silvery streams,
And gloomy gulfs of mystic sbade."

We have here given a representation of the gloions constellation Orion, which, throughout this month, shines with conspicuous and emphatic beauty in the southern beaven. in the southern heavens



The most remarkable nebula in the heavens is that which appears in what The most remarkable nebula in the heavens is that which appears in what is absurdly called the "sword handle" of Orion; and, as this month is a good one for its observation, we have subjoined an accurate drawing of its appearance. This wonderful group is without doubt a distant universe, spread in the illimitable depths of space, and but just revealed to human eyes to humble pride and elevate the immortal affections of observers. He who "telleth the number of the stars" is the same merciful Cleator who "healeth the broken in heart." From long-continued surveys of this famous



nchula, there is reason to believe it has undergone great changes since it was

nchula, there is reason to believe it has undergone great changes since it was first observed by Huzgens in 1636; that whether the changes—like those in our own planet—have consisted in a progress towards more highly organised existence, is, of course, a matter of extreme speculation.

Venus will be visible during the first week, a little hefore sunrise, near the south-easten borizon. Mars is to be seen at the hieak of day: and Jupiter and the evening twillight. On the evening of the 7th, Jupiter will be so near Uranus, or the Georgium Sidus, that both planets may be seen at the same time, if the telescope has a tolerably large field of view. The cut in



the margin shows the appearance of Jupiter with his Satellites, and Uranus, through an inverting telescope. Those who never saw this distant planet should embrace this opportunity, as they will find Jupiter a good guide to him.

NOTICES ON NATURAL HISTORY, &c. FEBRUARY.



THE THRUSH.

THE THRUSH.

THE thrush is distinguished among our singing birds by the clearness and fulness of its note; it charms us not only with the sweetness, but the variety of its song, which it begins early in the Spring, and continues during part of the Summer. The female builds her nest generally in bushes; it is composed of dried grass, with a little earth or clay intermixed, and lined with rotten wood. She lays five or six eggs of a pale blue colour, marked with dusky spots. Although this species is not considered with us as migratory, it has nevertheless been observed in some places in great numbers during the Spring and Summer, where not one was to be seen in the winter, which has induced an opinion that they either shift their quarters entirely, or take shelter in the more retired parts of the woods. The thrush is migratory in France: M. de Buffon says that it appears in Burgundy about the end of September, hefore the redwing and fieldfare, and that it feeds upon the ripe grapes, and sometimes does much damage to the vineyard. The females of all the thrush kind are very similar to the males, and differ chiefly in a less degree of brilliancy in the colours.—Bewick.

who are very sommer on the mars, and unter emery in a less aegice of orniliancy in the colours.—Bewick.

We observed this summer (1829) two common thrushes frequenting the shruhs on the green in our garden. From the slenderness of their forms, and the freshness of their plumage, we pronounced them to be birds of the preshruns on the green in our garden. From the stenderness of their forms, and the freshness of their plumage, we pronounced them to be birds of the preceding summer. There was an association and friendship between them, that called our attention to their actions; one of them seemed alling, or feeble from some bodily accident; for though it hopped about, yet it appeared unable to obtain sufficiency of food. Its companion, an active sprightly bird, would frequently bring it worms or bruised snails, when they mutually partock of the banquet; and the ailing bird would wait patiently, understand the actions, expect the assistance of the other, and advance from his asylum upon its approach. This procedure was continued for some days; but after some time we missed the fostered hird, which probably died, or by reason of its weakness met with some fatal accident.—Journal of a Naturalist.

In February the woodlark commences his sweet lays; the blackbird, and song thrush are heard. Tomits are seen hanging on the eaves of barns and thatched out-houses, particularly if the weather he snowy and severe. The yellow-hammer and chaffinch are neard towards the end of the month Rooks revisit their breeding-trees, the stone-curlew clamour and frogs croak. The hedge-sparrow sings, and our old friend the robin cheers us with his song. The most conspicuous of early insects is the indelatigable bee.

The brief visits of the sun are, now, generally sufficient to bring out a few flowers. In our walks in the garden, if the weather prove mild, we shall discover many pleasing objects; among these, the admirer of nature's beauties will not consider the snow-drop and the croous heneath his passing notice. The bloom buds of fruit-trees may be seen to swell every day. The lamustinus is still in blossom, and so is the china-rose. The buds of the Illac-tree are very forward; and the green-house is an object of at traction. The young lambs also now call for the attention of the shepherds. The snows thaw; the icy pools break up. The snow holds mingled with it more of the principles or elements which are favourable to vegetation than common rain water, so that the melted snow, sinking into the earth, enriches it with many of the salts most useful to nourish the plants which are destined to spring up soon afterwards. A provision is thus prospectively made to ensure a proper supply of food to every seed

Our mother-earth doth covetously wrap.

Our mother-earth doth covetously wrap.

These begin slowly to swell and germinate, so as about the beginning of the following month to appear with their young shoots a little above the surface, and faindly to renew the verdant covering of the soil. A few insects may also he discovered, and now and then, on a very sunny day, the brimstone-butter-fly surprises us while flitting on the yet childly breeze: the leaves of 'the elder also beg'n to expand: the mezereon puts forth its buds: the missel-thrush, the yellow-hanimer, and the sky-lark resume their pleasing strains, uniting with the birds of the former month in celebrating the return of Spring, of which they furnish the earliest and most unequivocal proofs. Other proofs, however, are not wanting, such as the blossoming of the willows, which lang out their yellow catkins as signals to the bees that they may again begin their industrions career: while the hazel makes preparations, by its flowering, to secure to the squirrel a store for its winter food.

These various indications of returning warmth excite emotions of joy and gladness in every mind; and the first notes of that general concert begin to be sounded which is to receive its full strength and power in May and June. The lover of Nature enjoys this in its utmost degree; and those who fail to cultivate an acquisiotance with Nature and her works lose more than can be compensated for by all the artificial usages of life.



THE MOUN.											
Last Qr. 1st 10 13 M											
New Moon 8th 6 36 M											
First Qr. 16th 1 52 M											
Full Moon 23rd 8 18 R											
Last Qr. 30tn 5 0 A											
March was the first month of the aucients;											

IN SEASON.

fore the whole of the fruittrees are pruned; the fig tree, however, must be excepted, as that should not be touched till the month of April.

29 S

LOW SUNDAY took is ances of the church being Vespers, 1282-Dr. Hunter Beethoven died, 1827

1	Test On let 10 12 or	D	1)	ANNIVERSARIES, OCCURRENCES AND PESTIVALS.	Ris	Es.	SETS.	AGE	Brid	e, mo	rn. &	even.
ı	Last Qr. 1st 10 13 M New Moon 8th 6 36 M	1	\overline{S}	St. David, Tutclary Patron of Wales, died, 544	6 4	46	5 40	0	6	31	6	58
	First Qr. 16th 1 52 M		S	4TH SUNDAY IN LENT. St. Chad, Bishop of Lich-					7	26		0
1	Full Moon 23rd 8 18 R Last Qr. 30th 5 0 A	_	2	field died, A.O. 672-John Wesley, founder of the sect of Methodists, died, 1791	0 .	17	7 42	27	1	20	O	4
1		3	М	Boileau died, 1711—Otway born, 1651	6	12	5 13	25	8	43	0	27
ı	March was the first				-				_		•	
d	month of the aucients; so named by Romulus,			Saladin died, 1193		10	-	26	10	15	10	59
1	from the heathen deity,	5	W	Battle of Barossa, 1811—Dr. Parr died, 1825	6 3	37	5 47	27	11	44		!
ł	Mars. Our Saxon fore- fathers called it Lenet-	6	$T_{\rm H}$	Spring Quarter commences—Michael Angelo b. 1475	6 :	35	5 48	28	0	20	0	47
1	monath, literally Spring	1		St. Perpetua martyred under Severus, A.D. 205—Bank				1	ĭ	15	ĭ	40
	month; Lenet is also synonimous with	/	F	of England virtually stopped payment, 1797	υ,	30	9 90	29	1	13	1	40
1	'length' in our langu-	8	Q	Raphael born, 1483—William III. dicd, 1702	6 9	31	5 52		2	2	9	9.1
1	age, and in this month							4	_		2	241
ı	the days exceed the night in length. It	9	S	5ти Sunday in Lent—David Rizzio assassinated,	0 2	29	5 54		2	44	3	2
1	was likewise called by	10	3.5	1566—Reform Bill introduced to the House of Commons, 1831	0	0			0	00	0	00
1	them Rhed-monath, from Rheda, one of	10	M	Sir Hugh Myddleton, projector of the New River	0 2	20	5 55	2	3	20	3	39
1	their deities, to whom	, ,	m	Company, died, 1589	0 0	2.4		9	0			14
1	sacrifices were offered in March; and f om	11	TU	The Emperor Napoleon married an Archduchess of	0 2	24	5 57	3	3	57	4	14
1	raed, council, this	10	337	Austria, 1810—Benjamin West died, 1820—The Bishops excluded Parliament, 1640	6 6	20	0	1	A	21	A	40
1	being the month	12	W	St. Gregory, Bishop of Rome, martyred, 590—Chelsca	0 2		5 59	4	4	31	4	49
1	wherein wars or expe- ditions were under-	12	T	Hospital founded, 1692 Foul Cross home 1764 Dr. Driestley home 1729	6	الم	6 9	F	=	-	E	01
١	taken by the Gothic tribes. They also			Earl Grey born, 1764—Dr. Priestley born, 1738		20		5	5	5	5	21
1	called it Hlyd-monath,	14	F	Klopstock, author of "the Messiah," died, 1803	6	17	5 - 2	6	5	40	5	58
1	or the Stormy mouth.	15	S	New London Bridge commenced, 1824	6	15	5 4	7	6	16	6	39
ı	IN SEASON.	16	6	PALM SUNDAY-The day of our Saviour's entry into	6	13	5 7	n	6	59	7	24
И	Fish.—Brill, carp,	10	2	Jerusalem. The Palm was solemnly blessed, and some of its branches burnt to	٠,		,	"	0	00	′	23
И	dabbs, dory, cels,			ashes to be used by the priests on the following year Gustavus III. King of		- 1						- 1:
ı	flounders, ling, lob-		3.5	Sweden, assassinated, 1792-Battle of Culloden, 1746	c .		0 0		-	- 0	0	00
J	sters, mussels, oysters, perch, pike, plaice,	17	M	St. Patrick, Tutelary Saint of Ireland, died at Ulster,	0 .	LU	5 6	9	1	56]	8	3 3
1	prawns, salmon, skate,	10	ers .	Ol.: l I I I II II II II	c	0	c 0	10	0	10	10	
J	sheimps, smelts, soles, tench, turbot, whitings.			Cambridge Lent Term ends-Horne Tooke died, 1812		8		10	9	18	10	. 0
1	MEAT as in Febru-	19	W	Oxford Lent Term ends-Louis XVIII. flcd from	6	61	6 11	11	10	42	11	$20 \Box$
ı	ary. Veal is best from			l'aris, 1815	١	.1		ı. í		- 1		
ı	March to July. GAME.—Wild fowl.	20	Тп	King of Rome born, 1811—Night and Day equal	6	4	6 - 12	12	11	55		1
ı	Poultry is in greatest	21	F	GOOD FRIDAY—Benedict—Duc d'Eughien shot, 1804	6	11	6 14	13	0	23	0	481
١	perfection when it is most plentiful. It is	22		The first Charity School of the Protestant Church		59		_	1	9	1	29
١	generally dearest from		L)	opened in England, 1688 - Goethe died, 1832		150	0 10	1.4	-	Oi	1	49!
1	March to July, and cheapest about Sept-	23	S	EASTER SUNDAY, a High Festival of the Church, in	5	57	6 17		1	47	9	51
Į	ember, when the game	20		commemoration of the resurrection of our Divine Expiator - Southwark Bridge		1	0 1,		•	3/	2	
1	season commences, and the weather being			opened, 1819-Insurrection at Marseilles, 1841								
İ	cooler, will allow it to	24	M	Easter Monday—Earl of Chesterfield died, 1773	5	55	6 19	16	2	20	2	39
ı		25	TIT	Lady Day-The Feast of the Annunciation instituted	5	52	6 21	17	2	56	3	13
1	VEGETABLES.— Bro- coli, parsnips, radishes,	~0	10	A.p. 350-Queen Elizabeth died, 1603				-/			•	10
Į	small sslad, and	26	W	Prince George of Cambridge born, 1819-Mrs. Fitz-	$\tilde{5}$	50	6 22	18	3	34	3	511
	(tbrough the year), tea kale, spinach,	23	1	berbert died, 1837	Ĭ .					1		-
	(Spring.)	27	TH	Peace of Amiens, 1802—Gunpowder introduced, 1380	5	18	6 24	19	4	9	4	29
Į	FRUIT.—The end of this month should not	28		General Abercrombie died, 1801		45			4	49	5	91
1	be allowed to pass be-	VII -	_			- 1				- 1		
ı	fore the whole of the fruit trees are pruned;	29		Siege of Acre, 1799		43			5	32	5	54
	the fig tree, however,	30	S	Low Sunday took its appellation from the observ-	5	47	6 29	(6	22	-6	49
۱	must be excepted, as		1	ances of the church being of a minor degree to those of Easter-Sicilian				1				

Low Sunday took its appellation from the observ-5 47 6 29 C ances of the church being of a minor degree to those of Easter-Sicilian Vespers, 1282-Dr. Hunter died, 1783-Allied Sovereigns entered Paris, 1814.

FLOWERA.—The supersbundent moisture of the earth heng dried up, the process of vegetation is gradually brought on; those trees which in the last month were beginning to put forth their buds are now exhibiting their leaves, and the various appearances of nature announce the approach of Spring. Mezeron is now in its heauty, and pilewort presents Is golden flowers on the moist banks of discussions. Kitchen Ganden.

Kitchen Ganden.

—In open borders sow apparagus, cabinages, carretts, curled and Hamburgh parsley, Neepolitan kale, parsnips, onions, &c; plant out such vertables as lisve been already sown.

already sown.

THE FAAM. — Burineas connected with the farm becomes brisk in March, sepecially if the weather prove dry.

On frward soils bar-ley sowing, at all events ploughing for it with the farm becomes reneral. Oats should be sown at this time; also clover, peas, &c. The live truck requires atill to be well kept, e-preially the ewea, or the lambs will exhibit the consequences of neglect. Prepare potato ground, and plant towards the end of the month. Plant heps. Cut alders. Cattle may be turned into water-meadows. Detroy moles. Top dress young wheats. Kill bacon hings.

Things to be remem.

2 39
3 13
3 13
4 Things to be remembered in March.—1,
Auditors and Assessors
5 51
4 29
4 29
5 Auditors and Assessors
Day, On the Thurs5 54
2 Sth, or within fourteen days after: and
6 49
in parishes maintaining their own highways, aurregor or ourveyors to be appointed
on the same day, |5 43 6 31 23 7 19 7 54

v

MARCH, 1845.

SONNET.

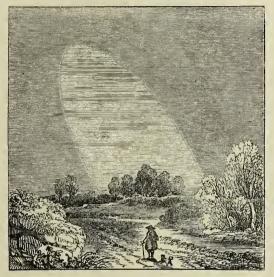
SONNET.

THOU variable Tyrant of the Year!

MARCH! in thy snow or frosty vestment clad,
Or making Nature weep a general tear,
Thou hast some attributes which make us glad—
Thou bring is the sunny April showers more near,
And therefore do we take thy emhassy,
Rude as it is, to be precursor sent
Saying: "At length the seasons do relent,
And flowery May all joyous ye shall see!"
Mild Zephyr soon will kiss the buds and flow is,
And through the disentangled woods and bow'rs
Breathe his warm breath upon the waiting things
That long to have their winter-closed springs
Unlock'd as throat of tuneful bird that sings!

ASTRONOMICAL APPEARANCES

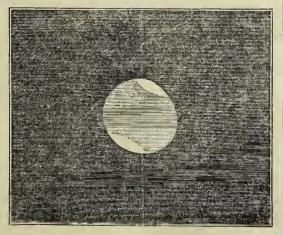
THE Lodiacal lights will appear during the first half of this month, about half-past seven o'clock in the evening, or as soon as the twilight is ended. The subjoined drawing exhibits a view of this phenomenon.



It will be observed to soar from the horizon in the form of a delicately luminous cone, pointing towards the Pleiades, or the star Aldebaran; its axis forming an angle of between 60 and 70 degrees with the horizon.

Various opinions have been entertained as to the cause of this sublime phenomenon; but as it uniformly accompanies the sun, it has been generally ascribed to an aumosphere of immense extent surrounding the luminary, and extending beyond the orbit of Mercury.

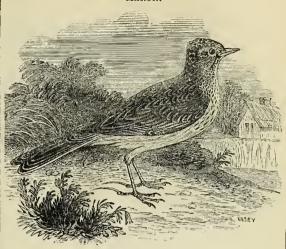
Mars is to be seen during twilight, not far from the south-eastern horizon; through a good telescope he will appear gibbous, like the Moon two or three days after the full. The accompanying engraving, gives the telescopic aspect,



in a correct manner, but in an inverted position. The comparative whiteness of the poles is very remarkable, and should be closely examined. Mars will appear not far from the Moon on the 1st and 31st days. The rest of the planets are unfavourably situated for observation. Jupiter may be perceived near the western horizon after sunset during the first week, but not longer.

NOTICES ON NATURAL HISTORY, &c.

MARCH.



THE SKYLARK.

THE SKYLARK.

In March the skylark sings delightfully; the blackbird gives out its mellow notes. Fieldlarcs and other birds take their departure to more northerly regions. The lesser pettychaps and the wheatear arrive. Some of the feathered tribes are now busy constructing their nests. In this mouth the redwing, fieldfare, woodcock, and other migratory birds take their departure on a summer excursion to the northern parts of Europe.

The lark produces two broods in the year; the first in May and the second in July or August. Mr. W. P. Foster, surgeon, of Church-street, Hackney, has for some years kept twelve or fifteen pairs of our smaller singing birds together in an aviary, where they appear in excellent health and plumage, repaying the care and attention hestowed on them by pursuing the round of their various interesting habits—the song, the courtship, the nest-building, and feeding their young within five or six feet of the window, outside which the aviary is constructed, and through which, when open, many of them come into the room to him. The degree of perfection which they are managed, and the total absence of any influence of fear or restraint on their habits may be learned by the fact that in the summer of 1836, a pair of skylarks produced four sets of eggs, in 1837, the same pair produced three sets of eggs, and reared some of their young; and 1838, three females had each of them a nest and eggs. During the period of producing the eggs the female has occasionally heen heard to sing with a power and variety of tone equal to the voice of her mate. To supply the quantity of insect food necessary during summer, the magotos of the flesh-fly and the beetle, so common in most kitchens, are principally resorted to. *Yarrell.*

The lark begins its song very early in the spring, and is heard chiefly in the morning; it rises in the air almost perpendicularly and by successive springs, and hovers at a vastheight; its descent, on the contrary, is in an oblique direction, unless it is threatened by birds of prey, o

ready to screen them from danger.

Trout begin to rise in the rivers, the smelt spawns, and blood worms appear in the water. Moles in quest of food, throw up hillocks. Bees, black-ants, and the meloe or oil-beetle, are seen in mild sonny days.

The vegetable world now puts forth fresh beauties every day; pile-wort, colts-foot, the daisy, and the primrose are some of the principal wild plants in bloom; while in the gardens are to be seen in flower the daffodil, the awect

colts-foot, the daisy, and the primrose are some of the principal wild plants in bloom; while in the gardens are to be seen in flower the daffodil, the aweet violet, crown imperial, polyanthus, &c.

It is not, in general, till the commencement of this month, that, in such a latitude as that of Britain, the effects of the higher temperature are visible on vegetation. Then the perennial roots, the former stems of which have died away, begin to send up the shoots which are intended to bear the leaves and flowers for the present year. These, it is worthy of remark, are always arranged in a uniform and unvarying manner, which is peculiar to each species or genus of plant. In the gardens we may observe the rhubarh and the peony, as examples of this fact, while the ferns or brakes of our heaths and woods present an interesting specimen of this arrangement. The buds of trees, which now also begin to unfold themselves, are likewise folded up in a similar way. The large buds of the horse-chesnut and the sycamore are well fitted for examination in this respect; the scalea, which form the outer coating of these, serve to protect them against the severe cold of winter, while the resinous or balsamicjuice which is spread over them prevents the penetration of wet, which would rot the buds and destroy the principle of life, or, if accompanied by some warmth, would hurry them into premature expansion, which would equally be fallowed by the destruction of the central and vital part of the buds. So long as buds remain closely folded up, they are in general secure from the most intense cold; but if, from the too early rise of temperature, which offen takes place in our springs, they have begun to expand, they are liable to be destroyed by the return of cold weather. This is equally the case our from the most intense cold; but if, from the too early rise of temperature which offen takes place in our springs, they have begun to expand, they are liable to be destroyed by the return of cold weather. This is equally the case our from t

evaporation, and the steady blowing of cold dry winds.

[&]quot;Consider the Zephyrus which dares hardly hreatbe in feare, how she plays and courts the corn. One would think the grasse the haire of the earth, and this winde a combe to disentangle it."—Bergerae's Satyrical Characters, 1658.



IN SEASON.

Fish. - Bril, earp, enckirs, eod, ersbs, dabbs, dory, cels, flunders, ling, lobsters, mackerel, mulfinitures, ross, sters, mackerel, mullet, muscla, oysters, perch, pike, plaice, prawns, svrimps, sulmen, skate, sults, soles, teuch, turnot,

whitings,
MEAT -Beef, mutten, veal. Grass amb
is best from April 10

is best from Aprl 10 June.
POULTEAT—Pullets, fowls, chickens, ducklings, picous, rabbi 6, Verranners.—Asparasus, chervil, cucumbers, lettuces, paramp, radishes, seakale, spinach, (Spring) Fautr.—Let the figs be now prined and trained. and where

FLOWERS. — Daffodidis, cowalips, prim-rores, ground ivy, and various other plants are in blow. The gardens are orna-mented with the poly-anthus, ranuaculus, jonquit, crown imperial, the early thips, &c. jonqui, crown impersal, the early thips, &c. Beech, larch, and elm unfold their leaves. All percanials should be planted now. Weeding is an important duty at this time.

The trout quits his bidiag place. Carp 30 W

9 W Battle of Toulouse, 1814—Lord Baeon died, 1626—15 18 6 46 Lord Lovat beheaded, 1747 Catholie Emaneipation Bill passed, 1829—Grotius 5 16 6 47 10 Tn Canning born, 1770—Napoleon abdicated, 1814 $11|\mathbf{F}$ 4 37 America discovered, 1492-Dr. Young died 12S 12 6 51 11 3RD SUNDAY AFTER EASTER -Handel died, 1759-13 5 |5| 10 |6| 52Vaccination introduced by Dr. Jenner, 1796 Bishop Porteus died, 1809 14 M 7 6 D 29 15 Tu Easter Term begins-Mutiny at Spithead, 1797 56 9 20 Buffon died, 1788 8 29 16 W 36 57 10 17 TH Abernethy died, 1831 16 59 11 9 49 10 27 18 F Judge Jeffries died, 1689—American Revolution, 1775 4 59 7 1 | 12 | 11 1 11 33 St. Alphage, Archbishop of Canterbury, murdered by 4 57 7 the Daacs at Greenwich, A. D. 1012-Lord Byron died, 1824

4TH SUNDAY AFTER EASTER—Cromwell dissolved 4 51 7 the Long Parliament, 1653—The Spanish Fieet destroyed by Admiral Blake, 1657 198 2|130 23 20 5 4|14 the Long Parliament, 1653—The Spanish Fleet destroyed by Admiral trained, and the peach, and nectarine blos- comes should be principled.

21 M Bishop Heber born, 1783

Duke of Sussex died, 1843—Fielding born, 1707 tetect.

FLOWERS.—Daffo.

23 W St. George of Cappadocia, Tutelar Patron of English 28 5|1570 2 6 4 53 7 1 47 St. George of Cappadocia, Tutelar Patron of England, 4 49 7
martyred, under Dioclesian, at Lydda, A.B. 290-Shakapeare bora, 1564-Died
1516-Cervanies died, 1616 48 Daniel Defoe died, 1731—Oliver Cromwell born, 1599 4 47 7 10 18 3 29 3 St. Mark, Evangelist and Martyr, put to death, A.D. 68 4 45 7 12 19 3 50 Princess Alice born, 1843—Cowper died, 1800 Lord Somers died, 1716—David Hume born, 1711 4 43 7 14 20 4 34 5 23 ROGATION SUNDAY, from Rogare, to beseech—Sir 4 417 15|21W. Jones died, 1794 Mutiny of the Bounty, 1789 4 39 7 6 14

The last War with France commenced, 1803—The 4 37 7 12 23

Washington inaugurated President of the United 4 35 7 20 24

Lendon University founded, 1827

States, 1789

whitewashed himself.
Brans — The summer birds of passage
new appear, and with
them that beautiful
little bird, the wryneck.
The swallow, euckon,
willow wrea, hlackeap,
whitethroat. &c. commence their vernal

7 16

8 28

W.

APRIL, 1845.

SONNET.

"The poetic birds rejoice,
And for their quiet nests and plen eous food,
Pay with their grateful voice." COWLEY.
THOU gentle herald of the flow'ry Spring:

Thou gentle herald of the flow'ry Spring:
Mother of violet and pale primrose
(Whose beauty now on every wild bank grows),
Hark! how the joyous birds thy welcome sing!
Some far up in the dewy sky on wing
Well pois'd—some chattering in the hawthorn hedge
Some deep-embow'r d in lonely glen or brake,
And others booming from the watery sedge—
All join'd, a various concert for thy sake
Most musically and most fondly make!
Sweet April! whose dear face so oft appears
The semblance of the brightest thing on earth,
(Which is a lovely, laughing girl in tears),
Thy coming wakes the groves to bloom and mirth!

ASTRONOMICAL APPEARANCES.

ASTRONOMICAL APPEARANCES.

The planet Mercury will be visible to unassisted vision near the western horizon, in the evenings, about the fifteenth day, to the end of the third week of this month, appearing like a gem in the hrilliant twilight. On such rare occasions, its light is seen to be white, like that of Venus, but less intense.

The telescopic observer, with a magnifying power of 150, may see this planet about the 24th of the month, soon after sunset, and it will then resemble a small half-moon of serene lustre. Thus observing him evening after evening, his crescent will be found to become more and more narrow, till it be obscured in the dazzling aplendour of the sun's rays; and at last the planet will pass between the sun and the earth, appearing like a black spot on the solar disc. (See next month.)

The steady brightness of Mercury is owing to his nearness to the sun, although a space of no less than thirty-seven millions of miles, intervenes between bim and the "ruler of the day." To the same cause, also, is to be attributed the fewness of the discoveries which have been made on his surface by means of the telescope. Copernicus is said never to have enjoyed an opportunity of viewing him during his whole life; and modern astronomers have scarcely ever succeeded in getting a well-defined picture of his form. Schroeter, however, an eminent German astronomer, blessed with an eye for observation, and being otherwise favourably circumstanced, appears to have been more successful. He says that he has not only seen spots, but mountains on the surface of Mercury, and that he succeeded in ascertaining



the altitude of two of these mountains. One of them, the highest which came under his notice, measured ten miles and 1,378 yards, or four times the height of Mount Ætna.

The light which falls on Mercury, is nearly seven times greater than what falls upon the earth; for the proportion of their distances from the Sun is nearly as three to eight, and the quantity of light diffused from a luminous body is as the square of the distance from that body. The square of 3 is 9, and the square of 8, 64, which, divided by 9, produces a quotient of 7, 1-9th, which nearly expresses the intensity of light on Mercury, compared with that on the earth. Or more accurately thus:—Mercury is 36,880,000 miles from the sun, the square of which is 1,360,134,400,000,000; the earth is distant 95,000,000 miles, the square of which is, 9,205,000,000,000. Divide this last square by the first, and the quotient is about 63, which is very nearly the proportion of light on this planet. As the apparent diameter of the sun is likewise in proportion to the square of the distance, the inhabitants of this planet will behold in their sky a luminous orb, giving light by day nearly seven times larger than the sun appears to us; and every object on his surface will be illuminated with a brilliancy seven times greater than the objects around us on a fine summer's day. The splendour which is thus reflected from every object is in all probability associated with colours of a moat vivid and gorgeous description.

At the end of this month, at break nf day, Saturn will begin to make his advent means the southeaster heavent ware.

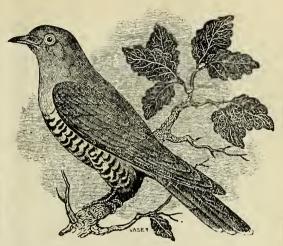
and gorgeous description.

At the end of this month, at break nf day, Saturn will begin to make his advent, near the south-eastern horizon, appearing below the planet Mars. On the 28th, Mars will appear in the vicinity of the Moon, and Saturn will bein the neighbourhood of the same luminary on the 29th and 30th.

The present month is a very fine one for making telescopic observations, as the air contains a suitable quantity of moisture. The hyarometrical state of the air is of the greatest consequence for astronomical observations, as it involves circumstances which affect astronomic vision to an extent not ordinarily considered. Dr. Robinson considers the state best suited for observation, to be very near the point of saturation, as the difference between the wet and dry bulb thermometers of more than a degree or two, he has found to preclude all accurate definition, the brighter stars having then a tendency to throw out scintillations of radiating light; and it was only in a moist condition of the air they appeared distinct in themselves, although surrounded by faint coloured rays.

NOTICES ON NATURAL HISTORY, &c.

APRIT.



THE CUCKOO.

THE following quaint rhymes mark the various stages of his progress through the scasons :-

In April. Come he will.
In May,
He sings all day. In June, He alters his tune. In July, He prepares to fly Come August, Go he must,

The Cuckoo neither makes a nest nor hatches her own eggs, nor does she nourish her offspring. The eggs are generally deposited in the nests of hedge-sparrows; but occasionally they are found in the nests of the following birds:—hedge accentor, robin, redstart, white-throat, willow-warbler, pied wagtail, meadow-pipit, rock-pipit, skylark, yellow-bunting, chaffinch, greenfinch, linnet, and blackbird.—Farrell.

The cuckoo visits us early in the spring; its well-known ory is generally heard about the middle of April, and ceases the latter end of June; its stay is short, the old cuckoos being said to quitthis country early iu July.

is short, the old cuckoos being said to quit this country early in July.

The following account of the economy of this singular bird in the disposal of its egg, was communicated by Mr. Edward Jeoner, to the Royal Society, and published in the seventy-cighth volume of their Transactions, part II.—
He observes that during the time the hedge-sparrow is laying her eggs, which generally takes up four of fire days, the cuckoo contrieves to deposit her egg among the rest, leaving the future care of it entirely to the hedge-sparrow. This intrusion often occasions some discomposure, for the old hedge-sparrow at intervals, whilst she is sitting, not only throws out some of her own eggs, but sometimes injures them in such a way that they become addle, so that it frequently happens that not more than two or three of the parent bird's eggs are hatched with that of the cuckoo; and, what is very remarkable, it has never been observed that the hedge-sparrow has either thrown out or injured the egg of the cuckoo. When the hedge-sparrow has sat her usual time, and has disengaged the young cuckoo and some of her own offspring from the shell, her own young ones, and any of her eggs that remain unhatched, are soon turned out; the young cuckoo then remains in full possession of the nest, and is the sole object of the future care of its foster parent. The young birds are not previously killed, nor the eggs demolished, but all are left to perish together, either entangled in the bush which contains the nest, or lying on the ground under it.

According to Dr. Jenner's observations, the Cuckoo is invariably a poly-

According to Dr. Jenner's observations, the Cuckoo is invariably a polygamist, and never pairs in this country.

The summer birds of passage now appear, and with them that beautiful little bird, the wryneck. The swallow, cuckow, willow-wren, blackcap, white throat, &c., commence their vernal songs. The nightingale, in Kent and other southern counties, pours out his wild musical strains all the night long. Various insects, chiefly butterflies, are seen.

If we remark the early flowers of spring, we shall find them all either close to the earth, concealed among the leaves (like the sweet-scented violet), or if raised above it, borne on stems so graceful and slender as to yield to every breath of air, like the Anemone nemorosa, or wind-flower. By this arrangerment they are preserved from the violence of the winds, and at once adorn on fields and flower-borders, and furnish nourishment to the insects which begin to come abroad from their winter retreats, or are then born. The bee commences its industrious search for honey, to supply which many of our cottage-gardens are furnished, or should be so, with early flowering-plants. Some of the early-flowering wild plants are very useful in this respect, especially the coltsfoot and butter-bur; the former of which, though very troublesome, from its spreading roots, in cultivated lands, should be encouraged to grow along the banks of rivers, the shelving sides of which it would support by its roots, while its flowers yield a large quantity of honey.

In exploring the haunts of insects, which are frequent among the hedge-

In exploring the haunts of insects, which are frequent among the hedge-ways, and in gathering, to examine, the flowers which spring so profusely in our meadows and fields, we secure a useful and pleasing recreation after hours of labour. Wherever a taste for such pursuits exists, the mind is raised above the grovelling ideas of the uncultivated mind, and the baser passions are sup-planted by purer and lostier ones.



called Interest the pasturage in this month being so abundan, as to enable them to milk their exacts fri, or three themes in the day.

M 8EASON.
Fish.—Brill, carp, cod, crabs, dabbs, dabbs, day, eels, flounders, garnets, ling lobsters, backerel, mullet perelt, wase, piaice, salmon, prawns, shriups skate, amelts, soles, feute, salmon, prawns, soles, feute, amelts, soles, feute, salmon, prawns, soles, feute, amelts, soles, feute, soles, meits, soles, teneli, arou, turbot, whitings, Meat. — Be f, mut-ton veal. Grass-lamb is best from April to

23 F

24 S

25 5

26 M

27 Tu

28 W

21 W | The first Railway Act passed, 1801

Dante born, 1265

William Pitt born, 1756

22 TH Trinity Term begins—Alexander Pope born, 1688

Queen Victoria born, 1819—Calvin died, 1554

29 TH King Charles II. restored, 1660—Princess Sophia 3 53 8 30 F Alexander Pope died, 1744—General Peace, 1814—3 52 8

Joan of Arc burnt by the English at Neufchateau, 1431
Anne Boleyne, mother of Q. Elizabeth, erowned, 1533 3 518

Francis attempted to shoot the Queen, 1842-Dr. 3 59 7 55 17

1st Sunday after Trinity—Sir H. Davy died, 3 57 7 57 19

St. Augustine, first Archbishop of Canterbury, died, 3 56 7 59 20

Poutray. - Pullets, rowls, chickens, duck-lings, pigeons, rabbits. Vegerables. - As-

VEGETABLES. — As-paragus, cabbage, car-rots, cauliflowers, cher-vil, corn-salad, cucam-bers, lettuces, peas, potatoes (and through the year), radishes, sca-kale, spinach (Apring), and turnips.

0 51

3 7 51 14

17 52 0

07 54 16

1 (

2 23

3 24 9

3 55 8

3 | 54 | 8

0 27

4 26 4 50

5 25 10 20 10 52

8 38

Things to be remembered in May. — That Ascension Day is on the 1st. Easter Term ends on the 8th, and Trinity Tarm begins on the on the 8th, and Trinity Term begins on the 22nd. The Queen's Birthday on the 24th. Holday at Custom and Excise. In this month the Clerical Levees (held on Saturdays), at Lambeth, usually commence, and the Royal Academy's annual exhibition is opened. Whitsunide and Martinmas terms are those slove reare those alone re-garded for the leasing of all kindsof property, paying rents, and en-gaging of servants in

in blow.

May is a spawning menth with many fish.
Gudaeonsare not fairly on the feed in many rivers till June.

W.

MAY, 1845.

SONNET.

SONNET.

MONTH of the nightingale, and rival hirds,
Who out of her sweet honey-breathing mouth
Would steal or echo all its music-words,
Thou'rt her again, once more from the soft south,
Where thou sojourning hast been since the time
Thou last wert banish'd from our fickle clime!
Yes! yes—thou com'st again as fresh in charms
As e'er we do remember thee invest—
The very rusting of thy pinions warms
And wakes all Nature from a sullen rest!
Thou art like Hope unto an aching heart
Which often bidden by Despair to go—
Will hut awhile (and then but seem) depart—
Returning soon new solace to bestow to Returning soon new solace to bestow

ASTRONOMICAL APPEARANCES. ECLIPSE OF THE SUN.

On the 6th day of this month, an Eclipse of the Sun, visible at Greenwich, will take place. The subjoined cut exhibits the different stages of its progress. It begins at Greenwich at 31 minutes past 8 in the morning, mean solar time; and ends at 47 minutes after 10. In the cut,

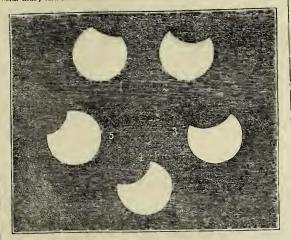


Figure 1 represents the appearance of the Sun at Greenwich 53 minutes after 8, A.M., heing 22 minutes after the heginning of the Eclipse.

15 minutes after 9,

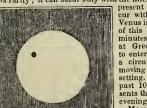
being the time of the greatest obscuration. - exactly 10. - exactly 10.
.. 23 minutes after 10.

TRANSIT OF MERCURY.

TRANSIT OF MERCURY.

This eclipse will probably furnish observers with an opportunity, which, we trust, will he eagerly embraced, of determining, in some degree, the character of the spots on the surface of the sun. These spots are of all sizes, from the one twenty-fifth part of the sun's diameter, to one five-hundredth part and under; or, to use popular language, the smallest of them is four or six hundred miles diameter. The number of the spots is very various; sometimes there are only two or three, sometimes above a hundred, and sometimes noue at all. They are constantly changing, and when watched from day to day, they are seen to enlarge or contract their forms, and at length to disappear altogether. Sometimes they keep a permanent form for two months together, but ordinarily three weeks is the average time of their duration. Very absurd notions have been promulgated respecting their sature. The most probable conjecture regards them as fissures in a luminous envelope, supposed to enclose the solid and opaque body of the Sun. Observers will therefore he anxious to watch the apparent contact of the moon's edge with any of these, "cavities," and to see if the points of contact exhibit anything which would lead to the inference that they are, as supposed, cavities or depressions of surface.

To an astronomer, no celestial phenomeuon equals in interest the transit of a planet across the disc of the Sun; it is remarkable as well for its singularity as its rarity; it can occur only with the inferior planets, and with them in the venus in the same period. On the 8th of this month, in the afternoon, at 19 minutes past 4 o'clock, mean solar time, at Greenwich, Mercury will appear to enter on the Sun's disc in the form of a circular black spot, and may be seen moving across the Sun to the time of his



hood of the Moon.

to enter on the sun state in the form of a circular black spot, and may be seen moving across the Sun to the time of his setting. The transit will end 51 minutes past 10 at night. Our drawing repre-sents the transit at the hour of 6 in the

Wars and Saturn are to he seen not far from each other at the hreak of day, and on the 26th they will he in the neighbourJupiter may be seen at the same time, to the left, and

* The ill-requited May that bears no thought Of last year's wrongs in memory, but strews From out her charitable lap untir'd, Her blessings o'er this thankless, thoughtless huhble l—Old Play.

NOTICES ON NATURAL HISTORY, &c.

MAY,



THE REDSTART.

THE REDSTART.

The redstart is migratory; it appears about the middle of April, and departs in the latter end of September, or beginning of October; it frequents old walls and ruinous edifices, where it makes its nest, composed chiefly of moss, lined with hair and feathers. It is distinguished by a peculiar quick shake of its tail from side to side, on its alighting on a wall or other place. Though a wild and timorous bird, it is frequently found in the midst of cities, always choosing the most difficult and inaccessible places for its residence; it likewise builds in forests, in holes of trees, or iv high and danger ous precipices. The female lays four or five eggs, not much unlike those of the hodge-sparrow, but somewhat longer. These birds feed on flies, spiders, the eggs of ants, small berries, soft fruits, and such like.

The redstart is an imitator of the notes of other hirds; and some have been taught, like the hullfinch, to repeat a tune. Mr. Sweet possessed a redstart that whistled the Copenhagen Waltz.—Yarrell.

The redstart sings ou the tops of trees, the white-throat warhles in the hedge-rows; the sklark salutes the rising sun with his sweet airs. Various other birds are now in full song. Various tribes of insects now appear, especially of the lepidopterous kind. Some of the small species of dragon flies appear on the hanks of ditches.

flies appear on the hanks of ditches.

At this particular time, the woods and rural lanes teem with life and enjoyment. The assiduity displayed by the different members of the feathered tribe in building their nests, or employing them for incubation, is unceasing. Each pair constructs a nest adapted to its particular shape and habits, and places it in a situation most convenient, as well as least likely to be discovered; the external materials are also generally selected with a view to this end, being mostly of a colour nearly resembling the substances on which they rest. One exception to this rule of each preparing its own nest is found in the custom of our annual visitant, the cuckoo, which, instead of building one for itself, makes use of the nest of some other species, but not of any bird indiscriminately, since it prefers the nest of the wag call, the bedge-sparrow, the tit-lark, the white throat, and the red-breast, all soft-billed, insectivorous birds.

We now receive many other migratory birds, as well as the cuckoo, the most welcome and favorite of which is the nightingale, who comes amongst us when the woods and groves lasten to perfect their leafing. Nor do leaves alone come forth; but the lilac waves its top of flowers, the horse-chesnut and the sycamore deck their green foliage with their ornameutal spikes, and the la-hurnam hangs its festoons of bright and golden blossoms. A canopy is thus spread out for them, where, sheltered from sight, the female faithfully broods over her eggs, while the male generally sits by warbling his early song. To walk forth into the fields, to listen to such melodies, is a luxury which all may enjoy, either at morn or eve. In either case they will be regaled with the delicious freshness of the atmosphere, now laden with the odour of plants; and the moisture which still exists in the air, especially during the cool of dawn or twilight, renders it well fitted to convey the fragrance of flowers, Every breeze is now scented with the perfume of the white thorm, familiarly c

SONG-1600.

Spring, the sweet spring Is the year's pleasant king; Is the vear's pleasant king; Then blooms each thing, Then mids dance in a ring; Cold doth not sting; The pretty birds do sing, Cuckow—jugge, jugge, Pu we, to with woo.

The palm and May Make country houses gay, Lambs frisk and play, The shepherds pipe all day;

And we hear aye Birds tune this merry iay, Cuckow-jugge, jugge, Pu we, to witta woo.

The fields breathe sweet,
The daisies kiss our feet,
Young lovers meet,
Old wives a sunning sit;
In every street
There tunes our ears do greet,
Cuckow-juge, lugge,
Pu we, to witta woo.

Queen Victoria crowned at Westminster, 1838

6TH SUNDAY AFTER TRINITY—St. Peter martyred 3 48 8 18 24

Earl of Argyll beheaded, 1685-Great Fire at Wool-3 48 8 18 25 10 43 11

First Qr. 13th 3 43 M.
Full Mooa 19tb11 18 4.
Last Qr. 26th 3 27 A.
JUNE takes its name
from the goddess Juno.
The Saxoas first gave
to this month the name
of Weyd-monath, and
afterwards Vere-monath
dry month. The former
dry mouth. The former
title was bestowed
because their beasts
did then weyed in the
meadows, that is to say
go to feed there; a
meadow in the Teu-
tonic is from thence
called a weyd; and of
werd we still retain our
word wade, to go
word wade, to go
through warry places,
as such me dows used
jornerly to be

N. Moon 5tb 1 7 M.

M D W D

8 9 10

22 23 24

25 26 27

28 S

29 **S**

30 M

at Rome, A.D. 77

wich Arsenal, 1805

as such meadows used ormerly to be.

IN SEASON.
Figs. — Carp. cod, rabs, dabbs, dace, dorr, cels, flounders, gurnets, haddocks, ling, lob sters, mack cel, nullet, perch. pike, plaice, prawns, salmoa, skate, soles, tench, trout, turbot, whitings. Maxr, as ia May, with the addition of venuson.

MAT, as in may, with the addition of vension.

POULTRY, as in May.
VEGITABLES.—Asparagus b. ans., (French and kidneys), boars, (Windsor), cabhages, carrots, cauliflowers, cherv., corn saind, cucumbers, endive, fand through the year].

lettuces, pras, radishes, spinach, (Spring) turnipa.

Poa Dayino.

Dayino.

Dayino.

Garlic

Fautr.—Pune and train the summer shorts of will rad

Fauir.—Prune and train the summer shoots of wall and trellis trees. Thin shoots of fruit shrubs. Protect fruit from birds. Keep the watering pot in use. Bisus.—The feathered tribe are now busy constructing their nests, and rearing their nests, and rearing their poung. Several birds yet sing delightfully in the fields and woods, where nects now abound.

I	D D	ANNIVERSARIES, OCCURRENCES, AND FESTIVALS.	RISE		SUA BETS.	MAGE	Bri	dge, n	er at	Lon.	
I	ຮ	2ND SUNDAY AFTER TRINITY—Brilliant action	3 5	$\overline{0}$	3 6	_	-	23		55	ros
	M	The Lord George Gordon Riots commenced, 1780	2 4		. ~	0.					ba
в	Tu	William Harvey died, 1657	$\begin{vmatrix} 3 & 4 \\ 3 & 4 \end{vmatrix}$	$\frac{9}{9}$		27	J	AC	0	22	the
1	w	The Kingdom of the Netherlands divided, 1831-	2 1	9 c 8 8	_	28 29		$\frac{46}{31}$	1	10	sta shi
	Тн	King of Hanover born, 1771	3 4	- -	10	1	2	$\frac{31}{12}$	0	53 30	do
;	\mathbf{F}	Corpus Christi-Census taken, 1841-Jeremy		- -		-	2	49	3	50	the
	a	Bentham died, 1932	l .	, -	- 4	1	"	-13	3	3	me
	S	The Reform Bill passed, 1832—Von Weber died, 1826 Royal Exchange first opened, 1566	3 4	6 8	11	2	3	25	3	40	Th
3	S	3RD SUN. AFT. TRINITY-Thomas Paine died, 1809	3 4	68	12	3	3	58	4	14.	lily
١	M	St. Anthony—Lilly the Astronomer died, 1681	3 4	68			4	30	4	48	for
1	$T_{\rm U}$	A potboy named Oxford fired at the Queen, 1840-	3 4	5 8	14	_	5	6	5	25	tis
		Astley's Amphitheatre destroyed by fire, 1841 St. Barnabas—Roger Bacon died, 1294		واء			-	4.0			riv
J	Тн	Wat Tyler killed in Smithfield, 1381—Collins died,	3 4	5 8	14	6	-	43	6	3	t
i		1759	ł	- 1		1	6	24	6	47	lett
	F	Battles: Nazeby, 1645—Marengo, 1800—Friedland,	3 4	4 8	15	D	7	11	7	38	snı bes
	S	Battle of Saragossa, 1809	2 1.	48	16	9	8	6	8	40	nov
н	S	4TH SUNDAY AFTER TRINITY—St. Vitus—Luther	3 1	1 8	16		0	14	0	45	bea the
1	-	excommunicated, 1520-Magna Charta signed, 1215	,					1-1	9	4,,,	abl
	M	Duke of Marlborough died, 1722—Joseph Buonaparte	3 4	4 8	17	11	10	16	10	48	cur
1	Τυ	St. Alban's, martyred, 303—John Wesley born, 1703	3 4.	18	17	12	11	21	11	51	As
	W	Battle of Waterloo, 1815-William Cobbett died, 1835	$\frac{3}{3}$	18	18	13	• •		0	22	1
ľ	Тн	Inigo Jones died, 1652-Sir Joseph Bankes d. 1820	3 4	48	18	14	0	49	ì	17	fa!!
1	F	Death of William IV., and Accession of Queen	3 4	18	18		ì	42	2	10	and
i	S	Victoria, 1837		1		1.0	0	0.0	_		fail
м		5TH SUNDAY AFTER TRINITY—Machiavelli died,	3 4:	$\frac{5}{5} \frac{8}{8}$			2	36	3	2	Wit Pla
۱		1527-Trial of Queen Carobine commenced, 1820-Battle of Vittoria, 1812	3 4	0 اد	19	1/	3	28	3	52	We bea
п	M	Leibnitz born, 1646—Akenside died, 1770	3 4.	5 8	19	18	4	15	4	40	san
ľ	Tu	Midsummer Day—Nativity of St. John Baptist—John Hampden died, 1643	3 4.	5 8	19	19	5	5	5	29	b v
1	w	Battle of Bannockburn. 1324—Quarter Sessions com-	3 41	58	10	20	5	54	6	18	salt
1		mence this week		- 1				9-1	U	10	to a
Į.	LH	London Docks commenced, 1802—Geo. IV. died, 1830	3 40	5 8	19	21	6	44	7	8	Car We
1		Dr. Dodd executed for forgery, 1777—Allan Cunning-	3 47	7 8	19	(7	35	8	3	hop

FLOWERS. — Mari gold and pæonies, and roses, including the guelder rose, with its balls of dazzling whiteness now di-p ay their beauties. The

their beauties. The star of Methielicus star o

3 47 8 18 23

8 32 9

9 38 10

9

18

JUNE, 1845.

SONNET.

All Season! sacred to the blushing flow'r, Whose leaves were stain'd by Venus' wounded feet When her Adonis ahe would save—most meet For ev'ry bird too, in both grove and bow r, To send its minstrelsy forth, loud and sweet,—Thee, with as fond but meaner music's pow'r, We welcome, and thy gen'rous advent greet! Thou bring'st with Thee an Alchemy most strange Compounded of the sweetest things on earth:—Tbrough the wide round of vast creation's range, Or circling dance of its eternal change. Or circling dance of its eternal change, No Month like Thee, produces at a birth Such fruit and flowers—melody and joy,— Which, it would seem no winter might destroy!

And yet—amidst thy garland of delights,
"It is sad to find some lurking poison there—
Thy nightingales may sweetly sing o nights
By day thy humblest flow'rs may seem most fair; By day thy humblest flow'rs may seem most fair; But in some secret place we may e-py. The deadly nightshade* crawling o'er thy bloom! As an unhappy melancholy sight, Will ev'n amidst the gayest revelry, Upheave the heart with sad foreboding gloom, And tell it that its time is near to die! Thus, o'er the brightest sun will come eclipse—Sorrow's a weed will nestle anid flow'rs—And while we frome sweet's are on our line. And while we fancy sweets are on our lips,
'Tis then, perhaps, we taste Life's sharpest sours! 111.

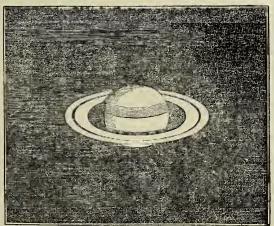
Besides, fair June! thou'rt hardly present here Before thou sing'st the endence of the year! Thou'rt like a verdurous mountain top, which won, By many a joyous step, on further side Presents a prospect, and a dreary one Contrasted with the path we upward plied! Full soon will day beyond thy crowning height Begin to fade before the length'ning night! And though thou promisest the goldeu firld, And all the fluit that Autumn ripe can yield,—Still 'tis a hast'ning to the gloomy time When the brown year will wear December's snow! Sad emblein that when Man doth reach his prime, Down—down the Hill of Life his steps must go!

* The Bella Donna flowers in Juae. . The Bella Donna flowers in June.

ASTRONOMICAL APPEARANCES.

ASTRONOMICAL APPEARANCES.

At the commencement of this month Saturn will rise soon after midnight, and as the Sun will ascend above the horizon before four o'clock, the best time for taking a telescopic view of him, will be about two o'clock: at the end of the month he will rise about half-past ten, and may be observed between midnight and one o'clock in the morning: his appearance, at all times splendid, will then be most impressive, as his rings will be admirably disposed for perfect exhibition. Attention should be given by observers to the



dusky spots which appear on his surface, by whose motion the diurnal rotation of the planet has been determined. The belts—as they are called—the shadowy bands which may sometimes be seen embracing the diameter of the disk, should also be carefully watched, as they are indicative of a structure wholly different from anything with which we are acquainted.

The cut exhibits the position of the rings as they will appear during the month of June; but, at other times they represent a variety of aspects, according to the position of Saturn in the heavens. Sometimes the planet will seem to be completely divested of his rings. Sometimes they appear only like a short liminous line, and, at other times, like a large brilliant oval, surrounding and embracing the body of the planet. These changes are owing to the circumstance that the rings never stand at right angles to our line of vision.

The planet Mars, will, during this month, be gradually approaching the Earth, and, of course, will appear to increase in magnitude: he will appear in the vicinity of Saturn, throughout the month, but may be easily known from Saturn, to unassisted vision, by his ruddy appearance.

On the 2nd, at 26 minutes past one in the morning, these two planets are in conjunction in right ascension, when Mars will be 2° 4 to the south of

Saturn.

The Moon will be seen in the neighbourhood of Saturn and Mars, on the 23rd and 21th, and on the 29th, near Jupiter.

NOTICES ON NATURAL HISTORY, &c.

JUNE.



THE LINNET.

Within the bush, her covert nest A little linnet fondly pressed, The dew satchilly on berhreast Sae early in the morning. She soon shall see her tender brood,
The pride, the pleasure of the wood,
Amang the fresh greeu leaves bedewed,
Awake the early morning.

LINNETS are birds of gentle dispositions, easily tamed, and capable of very considerable attachment to those who feed and attend them; if taken young, the males can be taught to sing; but the females have no song, and the old males do not utter their note. The young, however, may be made to imitate the songs of several other birds; and there have been instances in which they have been brought to articulate a few words. In disposition, this bird is gentle and docile, and is much admired for its song, which is lively and sweetly varied, and preferable to that of most other small birds. Upwards of five guineas have been given by a bird-eatcher, for a call-bird linnet.

The linnet builds its nest concealed in furze bushes; the outside is made up of dry grass, roots, and moss; it is lined with har and wool. The female lays four or five eggs, they are white, tinged with blue, and irregularly spotted with brown at the larger end: she breeds generally twice in the year.

The linnet is partially a migrant within the country, though the sexes do not separate in the same decided manner as the challinches. During the inclement season, the birds resort to the lower grounds, especially to those near the seas-shore. They appear in considerable flocks, the young birds appear carriest, then the females, and lastly, the nature males, which may be said to be the order of movement with all autumnal birds, how limited soever may be the distance to which they migrate.

In the flocking time, against which the male has lost the red on the breast, linnets fly very close and crowded, but with a smooth and straightforward flight.

Titis, which has been called "the leafy month of June, 'is well entitled to the appellation, since each tree is now in full and perfect foliage. At this season we have an opportunity of observing the various shades of green which so diversify the exterior of the woods. One uniform shade, even of green, would be as fatiguing to the eye, if it rested long upon it, as the more flaming colours are when gazed upon for a short time; but we are gratified by an infinite variety of hues, from the deep and sombre green of the yew and Scotch fir to the light and cheerful colour of the sycamore and the ash. The foliage of trees has a great share in furnishing characteristic features to landscape secency.

The occupations of the agriculturist keep pace with the changes of external nature. As the weather is not yet oppressively warm, the business of hay-making is carried on with less fatigue than the grain harvest; and the serenity of the evenings invites the toil worn citizen to breath the perimed air of mead and dale. Some persons, however, are so powerfully affected by the odour of plaots, and especially of the hay, as to be driven from the country, and compelled to take refuge from its influence on the sca-coast. The smell of new hay is principally derived from the sweet-scented vernalmeadow-grass (anthoxanthum-odoratum), the perfume of which appears to be owing to the presence of the projection. presence of benzoic acid.

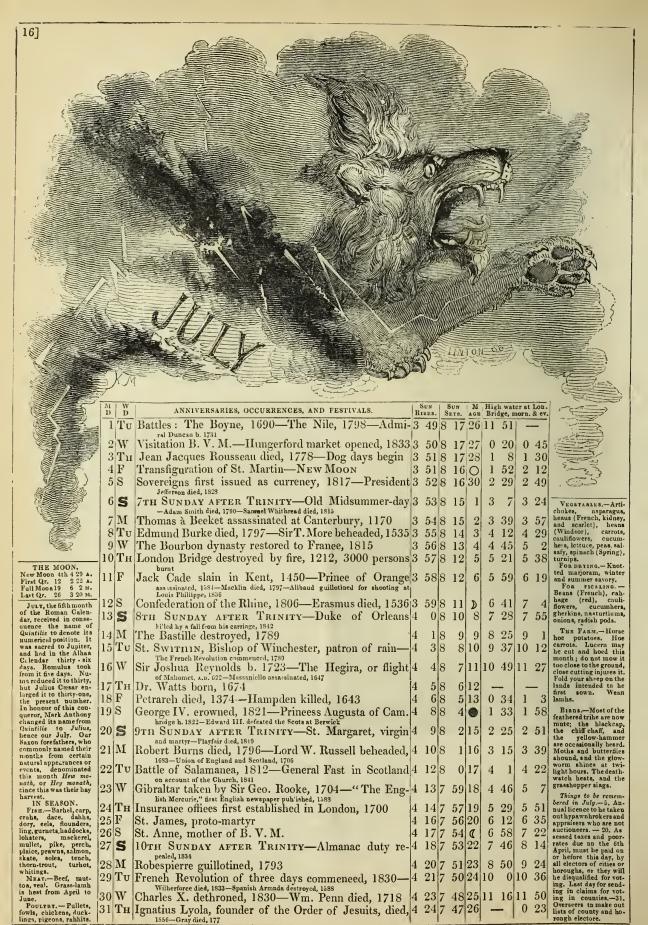
presence of benzoicacid.

In the pastoral districts this month is usually selected for the business of sheep-shearing, which is no less a rural festival than hay making. With our ancestors it was a time of great mirth and jollity; and though it has become more of a calculating operation, in which the gains to be derived from it occupy the thoughts to a greater degree than formerly, we trust that a reasonable oheerfulness is still spread over the mind at this interesting time, and that there mingles with this, and all our other works, a due sense of our dependence for ultimate success and reward ou Him who "tempers the wind to the shorm lead."

shorn lamb."

Towards the end of the month the air becomes dry, and often sultry, except when cooled and moistened by rain, which often falls in considerable quantity, Thunder-showers are also frequent, with their accompanying phenomena. These are preceded, in general, by a calm and sti, lness, which shows itself alike in the animal and vegetable kingdoms, no members of which exhibit the least notion till the commencement of the storm, when the birds Hy to a covert, and the cattle flee for shelter, and "the leaves all tremble withinstinctive dread."

This, however, like every other occurrence in nature, is productive of good, and is followed by a purity and freshness of the air which is owing to plants exhaling more oxygen after the excitation of a storm than before; animal life also revives, and all nature seems to rejoice in the recovery of her wouted tranquillity. wouted tranquillity.



JULY, 1845.

SONNET.

Now is the time to see the glorious Sun At early dawn his chymistry begin—
Tn see hm hang, on threads the dews have spun, Pearls, sapphires, rulies — and far up, within The greeny clouds, a golden tissue weave, Whose splendour do owsy-heads can ne'er believe! A poet's fancy only can conceive
The gorgeous beauty of a summer's morn At that sweet time when young Aurora 's born To sbed her smile on fields and groves and bow'rs, And tell the rustling minstrels on each tborn To mix their music with the breath of flow'rs! Oh! there's no time can give such pure delight, As when the Day first flees th' embrace of Night.

ASTRONOMICAL APPEARANCES.

The fine clear nights of this month, present eligible oppertunities for observing that interesting phenomenon—the nocultation or passage of one heavenly body over another. With the assistance of the subjoined engraving we shall endeavour to make a striking example of such an occurrence in the punctual heavens, intelligible to the least practised observers. The cut represents the telescopic appearance of the moon and the small star in the constribution Leo, called g', as they will he seen on the evening of the 9th nf July, at 36 min. past 8 o'clock; the moon, in its course, will appear to strike the star, and cause its instant disappearance. The contact is called, in astronomical language, the Immersion of the star. On this occasion, the apparent extinction of the star, will, as a popular spectacle, be made more striking, from the circumstance nf its being the dark side of the moon which will first cover it. At 32 minutes past 9, the star will reappear at the bright edge of the moon, constituting what is called its Emmersion. A powerful telescope will be required for the observation, as the star is small, and a strong twilight will prevail through the whole time of the nocultation.



In the wonderful regularity, the exact time-keeping which attends these and all the phenomena of the heavens, "we may see," says Dr. Dicks," what a beautiful and divine fabric the stellar universe exhibits. Like all the arrangements of Infinite Wisdom, its foundations, as far as they have been discovered, are plain and simple, while its superstructure is complete and diversified. The causes which produce the effects, are, apparently, lew, but the phenomena are innumerable. In the solar system, while the ends to be accomplished are numerous and various, the means are the fewest that could possibly bring the design into effect. What a striking contrast is thus presented hetween the works of Omnipotence, as they really exist, and the bungling schemes of the ancient astronomers! who, with all their cycles, epi-cycles, concentric account for the motions of the planetary orbs, or predict the periods of the most ordinary celestial phenomena. The plans of the Almighty, both in the material world and in his moral government, are quite utilise the circumscribed and complex schemes of man. Like himself they are agnificent, stupendous, and yet accomplished by means apparently weak and, imple. All his works are demonstrations, not only of his existence, but of his inscrutable wisdom and superintending providence. As the accomplishments of every workman are known from the work which he executes, so the operations of the Deity evince his supreme agency, and his houndless perfections. What being, less than infinite, could have arranged the sidereal system, and launched from his hand huge masses of the planetary worlds? What mathematican could so nicely calculate their distances and arrange their motions? Or, what mechanic so accurately contrive their figures, adjust their movements, or balance their projectile form with the power of gravitation? None but he, whose power is supreme and irresistible, whose agency is universal, and whose wisdom is unsearchable."

Mars will appear this inouth much larger than he did in June, owing

appear in maps.
It has long heen observed that the stars shine with different colours; for It has long been observed that the stars shine with different colours; for the diversity is apparent to the naked eye. Among those of the first magnitude, for instance, Sirius, Verga, Attair, Spica, are white, Aldebaran, Arcturus, Betelgeux, red, Capella and Procyon, yellow. In miner stars the difference is not so perceptible to the eye, but the telescope exhibits it with equal distinctness. It is likewise far more striking in countries where the atmosphere is less humid and hazy than ours; in Syria, for instance, one star shines like an emerald, another as a ruby, and the whole heavens sparkle as with various gems. There is no doubt that, in the course of long periods of time, stars change their colours. Sirius was celebrated by the ancients as a red star, now it is hrilliantly white; and other changes have occurred of a like nature. It were more than vain to speculate regarding, the causes of these variations. They are indicative of a set of laws whose nature is yet wholly unknown.

Other important discoveries have recently here added upou the properties and power of the light-emitted by these varied colour stars; and the concentrated rays from some have been found of sufficient strength to trace a delicate outline upon some of the most sensitive of the photogenic papers prepared by Sir J. Herschel and others.

NOTICES ON NATURAL HISTORY, &c.

JULY.



THE SWALLOW.

Or all the various families of birds, which resort to this island for food and shelter, there is none which has occasioned so many conjectures respecting its appearance and departure as the swallow tribe. The swallow lives habitually in the air, and performs its various functions in that element; and whether it pursues its fluttering prey, and follows the devious windings of the insects m which it feeds, or endeavours to escape the hirds of prey by the quickness of its motion, it describes lines so mutable, so varied, so interwoven, and so confused, that they hardly can be pictured by words. The swallow tribe is of all chers the most inoffensive, harmless, entertaining, and social; all, except one species, attach themselves to our houses, amuse us with their migrations, songs, and marvellous agility, and clear the air of gnats and social, an except one species, and in tension and clear the air of gnats and other troublesome insects, which would otherwise much annoy and incom-

mode us. Swallows are found in every country of the known world, but seldom remain the whole year in the same climate; the times of their appearance and departure in this country are well known: they are the constant harbingers of Spring. And on their arrival all nature assumes a more cheerful aspect. The bill of this genus is short, very broad at the base, and a little bent; the head is flat, and the neck scarcely visible; the tongue is short, broad, and cloven; tail mostly forked; wings long; legs short.

THE year having attained its height, as well as the day its greatest length,

The year having attained its height, as well as the day its greatest length, in the preceding month, all things seem now hastening to maturity, in order to complete the object of their creation ere the winter arrive. But even now we miss many of the enlivening and cheering appearances of the earlier months: the incubation of birds having been completed, many of the morry ministrels of the grove cease to warble their sweet strains, and a brown or russet hue clothes the fields of waving grain, instead of the fresh and tender green of May. There exist, however, on every hand, appearances and changes, sufficient both to delight the eye and gladden the heart and mind of man. Though the external part of the flowers of the fruit trees, with their delicate tints and smell, have disappeared, we see them succeeded by their luscious and useful fruits, to which they were merely intended to serve as a protection while young and apt to be injured by the cold nights of early spring. The warmth which now prevails is very favourable to the thorough ripening of such fruits as the gooseberry, the currant, and the cherry, and the influence of this warmth is so great that fruits, which are acid in the morning, often become sweet before night. The presence of a considerable quantity of sugar in fruits assists to preserve them; hence, in dry warm summers, apples and pears keep much better than in cold cloudy seasons; and preserves or jellies may be made with less sugar in bright sumny years than in wet and gloomy ones.

The absence of rain is, in some degree, compensated for by the very heavy dews which fall on the clear cloudless nights, and which refresh and nourish the grain, now advancing to maturity. After the ear is well filled, dry weather is very desirable, to harden the seed, which then keeps better, is more easily threshed, and furoishes better flour.

The insect tribes are the cheerful hum of the

ther is very desirable, to harden the seed, which then keeps better, is indee asily threshed, and furoishes better flour.

The insect tribes are now extremely numerous; the cheerful hum of the grasshopper enlivens the fields; and the beetle, buzzing through the air, breaks the silence of evening. The annoyances produced by many insects are so incessant as to lessen the pleasure of a twilight walk, though we may console ourselves by reflecting that they are not so troublesome and dangerous as those of tropical countries. The domestic animals seem to suffer from their bites more than human beings. These wounds of insects are sometimes made to obtain nourishment, at other times to deposit their ova; but most insects for this purpose resort to the plants or to the earth.

The cool and grateful shade of trees is now too inviting to be neglected, and amid the woods we may meet with some of the most beautiful wild-flowers which this country produces, as well as many which furnish indications of the weather, which no one should neglect, if they desire to escape those sudden showers, or the approach of which we have no other intimation. The scarlet pimpernal, or anagallis arvensis, has received the name of "the poor man's weather-glass." The observation of this, and other plants, the opening and olosing of which are regulated by the degree of light, is at once interesting and instructive.

and instructive.

Court the fresh air, explore the heaths and woods,
And, leaving it to others to foretell,
By calculation sage, the chb and flow
Of tides, and when the moon will be eclipsed,
Do you, for your own henefit, construct
A calendar of flowers, plucked as they hlow,
Where health ahides, and cheerfulness, and peace.
Wo addworth.



IN SEASON.
Fish.—Barhel, carp,
dabbs, dace, eels, gurnets, flounders, haddocks, herrings, pike,
prawns, plaice, lohsters, salmon, skate,
soles, tench, thorohack, turbot, and whitines.

23|S

24 S

 $25|\mathbf{M}|$

27 W

29 F St. John Baptist beheaded, A.D. 30—Dr. Paley b. 1743 5 GAME. — Grouse, from the 12th. Mear and Poultry as in July. The Act for the Abolition of Slavery passed, 1833

volcano, A.D. 63-Warren Hastings died, 1818 American War commenced, 1775

07 3|20|5 40 5 59 6 19 6 41 14TH SUNDAY AFTER TRINITY—St. Bartholomew 217 1 (3 29 59 22 David Hume died, 1776—Sir W. Herschell d. 1822 4 7 59 57 23 8 36 7 26 Tu Prince Albert born, 1819—Trincomalee taken, 1795 55 24 9 16 9 57 Admiral Blake born, 1599, died, 1657 7 6 8 6 52 25 10 37 11 15 28 TH St. Augustine, Bishop of Aleppo, died, A.D. 430 10 6 50 26 11 51 0 43 12 6 48 27 0 21 5 15TH SUNDAY AFT. TRINITY—John Bunyan d. 1688 8t. Sehastian, stormed, 1813 1 26 5 13 6 46 28 1 6

bundays, horough and county his six to heaffixed to church doors. 19. Last day for leaving with overseers objections to county electors. 25. Last day for service of objections to relative the same of objections to horough electors. 29. Overseers of parishes and townships to send number of objections to horough electors and number of objections to the high last of electors and number of objections to the high last of the high la

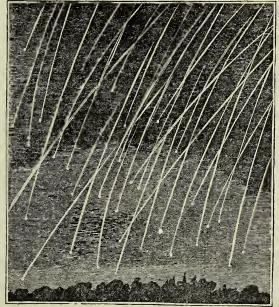
AUGUST, 1845.

SONNET.

WITH lingering kiss, the drowsy Lord of Light Like Antony, when to th' Egyptian Queen He bade farewell, hangs on the cheek of Night Within her chamber of the deep!—I ween, He'll hasten thither too at evening hour, Leaving grey Twilight as his deputy To keep awake the eyes of ev'ry flow'r That weeps the Day's decline so soon to see! Or is't that Sol at this young Bacchus' birth, Drinks of the jnicy grape, and ebriate Hurries to Tethys' wat'ry couch, from Earth To hide himself?—he rises now so late, With face all flush'd, that e'en cold Dian's orb Seems something of the red-grape to absorb!

ASTRONOMICAL APPEARANCES.

About the 10th of this month look for the appearance of showers of falling stars. Strange as this announcement may appear, it is nevertheless true, that at that time and in a still more profuse degree, on the 12th or 13th of November, immense flights of these extraordinary meteors take place. In the central States of America, and in all the temperate countries of Europe, thousands of them have appeared to sweep along at once, and in continued succession for several hours, so that almost the whole visible canopy of the sky seemed to be in a blaze. So regular have these appearances become, they are considered by the scientific men of most countries to be regular periodical phenomena. They appear to have their origin beyond the limits of our atmosphere; to fall towards the earth by the attraction of gravity; to tavel the earth's atmosphere at a rate equal to four or five miles in a second; to be composed of light materials, and to undergo combustion during their flight. What they are, and whence they come, is a mystery. Shakspeare calls them "bright exhalations of the evening," but that, we may intimate, was before electricity was discovered. Our readers should observe and record their observations. ABOUT the 10th of this month look for the appearance of showers of falling their observations.



The apparent magnitude of these meteors is widely different. The greater part of them resemble stars of the 3rd, 4th, 5th, and 6th magnitudes; but some occur which surpass stars of the 1st magnitude, and even exceed Jupiter and Venus in brilliancy. In some of them the globular form can be easily recognized; these are, in every respect, similar to fire-balls; and, in fact, it is impossible, from their appearances, to make any distinction between the larger shooting stars and the smaller individuals of meteors to which the name of fire-balls is usually appropriated.

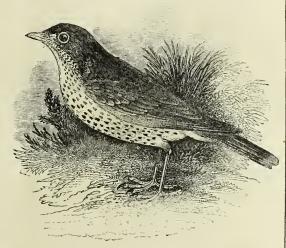
Shooting stars appear to be equally numerous in every climate. The weather seems to have no influence upon their number. They are observed at all times of the year; but, generally speaking, they appear to be more abundant in the end of summer and autumn than at the other seasons.

Some of the shooting stars leave a luminous train behind them, which marks their path through the sky with a milk-white light. These trains for the most part disappear in a few seconds; but sometimes they continue longer, and even for several minutes. In the case of actual fire-balls, Dr. Olbers observed trains which continued from six to seven minutes; and Brandes, in one instance, estimated that fifteen minutes elapsed between the extinction of the fire-ball and the disappearance of the luminous train. The trains in general assume the form of a cylinder, the interior of which is void of luminous matter; and not unfrequently, before their disappearance, they take a curved form. The most probable explanation is, that they are caused by a gaseous matter left behind by the meteor, and bent by currents of air. Deluc maintained that certain phosphorio exhalations generated in the earth, and becoming inflamed in the sky, formed the true essence of the shooting stars.

Towards the end of the month, when the evenings are very clear, the planet Venus may be seen very near the western horizon sometime after sunset. Mars, towards the east of Saturn, gives at midnight a splendid appearance to the southern skies. He will be in opposition to the Sun on the 18th, when he will be at his least distance from the earth, and appear the largest. Saturn and Mars will be favourably situated during the month for telescopic observation.

NOTICES ON NATURAL HISTORY, &c.

AUGUST.



THE WOODLARK.

THE woodlark is generally found near the borders of woods, from which it derives its name; it perches on trees, and sings during the night, so as sometimes to be mistaken for the nightingale; it likewise sings as it flies, and builds its nest on the ground, similar to that of the skylark. The female lays five eggs, of a dusky huc, marked with brown spots. It builds very early, the young, in some seasons, being able to fly about the latter end of March.

The sprightly and ever-varying song of this bird is most welcome to the ear

Of one who long in populous city pent, Where houses thick and sewers annoy the air, Forth issues on a summer's morn to bathe Amoug the pleasant villages and farms.

Among the pleasant villages and farms.

The cares and toils of the husbandman are now about to receive their full reward. The seeds, committed to the earth in spring, having been watered by the gentle showers of April and May, warmed aud nurtured by the suns of June and July, have attained their perfect stature, and brought forth, according to the soil and situation, some ten-fold, and some a hundred-fold.

Beautiful as is the sight of wide fields of yellow corn, waving its richly laden top before the breeze, it is infinitely more animating and delightful to see the stately stems fall before the regular and measured stroke of the reaper, whose toil is lightened by the thought that abundance is thus poured from the lap of earth into the garners of her children, to support them when the season of unfruitfulness is nigh. It is a subject worthy the consideration of every one, to calculate what a vast quantity of nourishment is, by the agency of the vital principle in seeds, thus annually abstracted from the atmosphere and the earth, and reduced to a state fit to minister to the sustenance of men and animals. We shall thus find that the existence of most animated beings is dependant for its continuance on the law or principle, inherent in plants, of producing a seed similar to that from which it sprung. The perfecting of this seed is the grand object of the various processes and actions which take place in the plant, from the commencement of germination; and, when it is completed, the end for which the plant was formed is accomplished, as far as the cereal grains are concerned, in respect to the interests of man and the domestic animals. To secure this precious treasure, all persons, young and old, engage in the work of the harvest; and the termination of their toils was formerly, and in some places still is, celebrated by a festival called Harvest-home. But, whether the festival be observed or not, we hope that there are few who can witness the additions made to our stores of provisions, without experiencing a feel

Whose blessings fall in plenteous showers
Upon the lap of earth,
Which teems with foliage, fruits, and flowers,
And rings with infant mirth.—J. MONTGOMERY

And rings with infant mirth.—J. Montgomery

The fruit-treea also yield their share of luxuries to our tables, or materials for preserves, or the still more wholesome beverage, cider.

The plants now in flower belong mostly to the tribe of compound plants, such as the dahlias and sunflowers in the gardens, and the different species of thistles in the fields. The seeds of these supply much food to certain kinds of birds, especially the goldfinch, which, from feeding chiefly on the thistle, is called fringilla carduells. Now it is worthy of remark, that while most birds have finished the process of incubation, and their young are fledged and on the wing nearly two months ago, it is only about the middle of this month that the young goldfinches appear, shortly after the plauts have begun to flower from which they are to obtain their food. This regular succession of plants and birds holds everywhere; but is best seen in the Himalayan mountains, where, from the wide difference of temperature at different seasons, the character of the vegetation is totally changed, and in proportion as this takes place, a difference is observed, not only in the birds, but also in the animals and insects which frequent these regions. The entomologists of our own country are well aware of this relation between the appearance of particular plants and particular insects, which resort to these either for food or to deposit their eggs. During this month some of the most beautiful of the butterfly tribe are to be seen.

While these winged insects are only making their appearance, some of our migratory birds prepare to leave us. The earliest of these is the puffin, which rarely prolongs its stay beyond the 11th of August.

Ceaseleas change pervades all the works of nature, and furnishes both to the eye and mind subjects which are constantly withdrawn and again renewed for observation and reflection.

for observation and reflection.



l 	D	1
New Moon Ist 9 34 A. Pirst Qr. 9tb 5 25 M.	1	M
Full Moon 15 10 13 M. Last Qr. 23d 10 25 A.	2	T
· SEPTEMAEA. accord-	3	W
posed of the word Sep- tem, seven, and the		Т
terminstion ber. Pris- cian and Isidorus con- sider September to be	_	F
composed of Septem and imber, a shower of	6	S
rain; this mouth being the commencement of the rainy season. The	7	S
Saxons called this month Gerst monath.		3.0
because barley was then called gerst, the name barley being	_	M Tu
given to it by reason of the drink made		^ `
therewith, called beer and beerlegh, and thence to barley. They	10	
also called it Halige.	$\frac{11}{12}$	
month, from an an- cient festival held at this season of the year	13	
IN SEASON.	14	S

1 M

15 M

16 Tu

W

17

IN SEASON.

IN SEASON.

Fish.—Barbel, carp.
cockles, dsce, eels,
flounders, gurnets, baddocks, berrings, lob
sters, mussels, opsters,
perch, pike, plaice,
shrimps, soles, teach,
thoraback. whitings.
Misar.—Beef, mutton, veal. Grass-lamb
is best from April to
June. Beefis best from
Michalmas to Mid
summer. Pork is best
from Michaelmas to
Marcb.
POULTHY.—Pullets,
flowls. & citickens, duckflowls. & citickens, duckflowls. & citickens, duck-

March.
Poullar, — Pullets, fowls. c'ickens, ducklings pigeous, rabbits.
GAME.— Grouse, partridges.
VEGETABLES.— Articbokes, beans (scarlet), celery, Jersm.
articbokes, leeks, ouions, shalots, turnips.

Bians.— Broods of young goldfinches appear, linnels congregate, and rooks are very noisy as they re turn heme at sunset; the little fly-catcher disappears, and the owl hoots; butterflies and moths are still numerous, and lady-birds are often seen Partridge shooting begins tridge chooting begins

2	Τυ	Great fire of London, 1666, forctold by Lilly 15 years	5 16	6 41	1	2	18	2	36	
3	W	Battle of Worcester, 1651—Oliver Cromwelll died,	5 18	6 39	2	2	51	3	7	
4	Тн	Riots at Manchester 1830								
6	S	Malta captured, 1800—First American Congress, 1774 Blucher died, 1819—Hannah More died, 1833— 8hakspere Juhilee, 1769	5 21	6 35	4	3	55	4	12	
7	S	Shakspere Juhilee, 1769 16TH SUNDAY AFTER TRINITY—St. Eunarchus— Buffon John John John John John John John Jo	5 23	0 32	3	4	01	4		
		Buffon born, 1707—Dr. Johnsou, b. 1709—The Porteus riots at Edinburgh, 1736 Battle of Borodino, 1812	5 24	0 30	U	5	Э	Э	25	

St. Giles, Abbot of Nismes, martyred A.D. 717—Par-5 15 6 44

Nativity B. V. M. 8 M 5 26 6 28 William the Conqueror died, 1087—Battle of Flodden 5 27 6 26 9 Tu Field, 1513-Municipal Corporation Act passed, 1835-St. Schastian stormed,

10 W Mungo Park died, 1771 11 TH Thompson born, 1700—Lord Thurlow died, 1806 12 F

tridge shooting begins

Siege of Vienna, 1683—Battle of Aberdeen, 1684 C. J. Fox died, 1806—General Wolfe killed, 1759 17TH SUNDAY AFTER TRINITY - Moscow burnt, 5 35 6 14 13 1812 - The cross found by the Empress II lena, A.n. 615 Huskisson killed, 1830, at the inauguration of the 5 37 6 12

George I. landed in England, 1714—Foundling Hos-5 396 pital burnt, 1742-Louis XVIII de Siege of Gibraltar ended, 1782-London and Birming-5 40 6

ham Railway op-n d 18 TH Laurence Sterne died, 1768-Day and night equal 19 F Battle of Poictiers, 1356 20|S

Battle of Newbury, 1643 18TH SUNDAY AFTER TRINITY-St. Matthew-21 5 France declared a Republic, 1792-Christ Church cration Flight of Mahomet, A.D. 622—Charles V. died, 1558 5 48 5 56 21 -New Post-office opened, 1829

23 Tu The autumnal quarter commences—Major Cartwright 5 50 5 53 (Don Pedro, cx-Emperor of Brazil, dicd, 1834—Samuel 5 52 5 51 23 24 W

25 TH Porson died, 1808 Constantinople founded, A.D. 329—"The Holy Alliauce" formed by the European Sovereigns after the defeat and expulsion of Napoleon—Marquis Wellesler died, 1812

Brindley died, 1772—Battle of Busaco, 1810

5 56 5 44 26 26 F 27 S

19th Sunday after Trinity—Commencement of 5 58 5 42 27 28 \$ the Mosaic year -Sheriffs aworn into office 29 M St. Michael, the Archangel—Quarter day—Rents due 6

Lo-d Nelson born, 1758 30 Tu St. Jerome of Prague, first translator of the Bible, 6 died, A.D. 421-George Whitfield died, 1770 - The earlest and standards taken from the French in the Peninsular war deposited in White-hall Chancl, 1812 Fruit — Plant all sarts of hardy fruit trees. Protect fig trees. Shield late grapes by matting. Dig and ridge up where trees are pruned. Nail up

M | High water at Lon.

5 44 6 6

6 32

29

8 52

1 56

2 37

3 54

4 31

5 45 6

6 27

7 17

8 30

1 10

5 56 5 44 26 11 9 11 43

9 53 10 32

0 32 0 53

0 14

D

9

5 32 6 19 11 10 22 11

9|15

7 16

5 17 3 16

3 18

0|19

5 34 6 16 12 11 43

5 29 6 23

5 42 6

43 6

45 6

5 47 5 58 20

5 53 5 49 24

0 5 40 28

1 5 37 29

5 31 6 21 10

6 58

9 37

0 42

2 15

3 36

4 13

4 48

5 26

6 50

-11

0 11

1 30

2

Sun Sets.

THE FARM. -- The farmer's year may be said to be completed, hut his work is never ended; no sooner is hut his work is never conded; no scorer is one harvest finished than he must prepare his ground for another. Plough your fallows for the leat time. The end of this month is the period when the cultivator's misin crops cultivator's main crops of wheat must hegin to be sown. Plough your bean and pea, and clover lays, or stubble, for this crop; dress the heavy soils with lime. l'lough your winter fallows.

Things to be remembered in Sentember1 and 8. (Two Sundays
proceeding the 15th)—
Lists of objections to
county electors, and
claims and objections for
county electors, and
claims and objections
for borough this to be
affixed to church doors
5. Overseers of pa isles
and boroughs to m-ke
out burge-s jists under
Municipal Reform Act,
which must be delivered to town-elerk on
this day.—8. Town
clarks in boroughs to
cause the burge-s livits
to be fixed in public
places in boroughs,
from this day till 15th.
15. Claims of persons
omitted in the burgess
lists and objection-s to
pa-sons improperly inserted, to be given to
the town-clerk in writing on or before this
day; no'ice of the obiection slas to be given ing on or before this day; notice of the objection slav to be given to the person objected to the person objected to the person objected to the person objected to the test of the person objected householders, to meet, and prepare lists for selection, by the justices, of way-wardens or surveyors of highways. —24 Livts of claimants and of persons objected to, to be fixed by town-clerk in some public place of each borough, from this day till October 1.

SEPTEMBER, 1845.

SONNET.

SONNET.

Now comes apace the evening of the year,
With all its sunset glories spread around—
How beautiful the gliding doth appear
On that high waterfall, whose distant sound
Murmurs a diapason to the song
Of warbling treble pipes the groves among,
Which blackhird, thrush, and woodlark sweetly blow.
Poor innecents! they do it not for show,
Or gain,—but from some inward thankfulness
That they are free from prowling mad's design,
Who at this season levies his distress That they are tree from proving man's design.
Who at this season levies his distress.
On many a partridge home, and doth consign.
The parent, or the offspring bird, or mate.
To be henceforth bereaved or desolate!

ASTRONOMICAL APPEARANCES.

When a telescope of considerable power is directed to certain stars which appear single to the naked eye, another star, generally much smaller than that which appears to the unassisted eye, is seen quite adjacent to it. These form what is called a double stars. Not more than six or eight of such stars were known to the astronomers of the 17th century; but now, such is the pertinacious industry of observers, upwards of six thousand bare been discovered, named, and registered. One of these heautiful objects, the fine double star Castor, will entertain the lover of astronomical phenomena in the clear mornings of this month. The hest time for viewing bim will be about



3 o'olock, when it will appear pretty high in an easterly direction serving this object he may lower his telescope a httle, and, turning it to the south-east, observe the stars of Orion and theuchula in that constellation. The time will also he a favourable one to inspect Jupiter, who will be shining high in the southern skies.

high in the southern sides.

In the evenings of this month, the double star E in Lyra (heing then high in the western parts of the heavens) will form an interesting subject for investigation. This star, with a low telescopic power of 5, resembles Castor when magnified with 450. With the power of 120, this beautiful double-double or quintuple star may be seen as the annexed figure represents. The right ascension of E iu Lyra is 18h. 99m., and its dechnation 39d. 31s., North.



The following seven double stars are believed to revolve in the subjoined

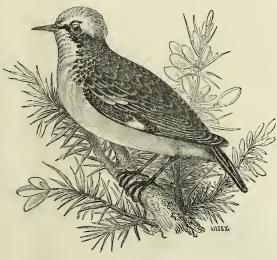
The following seven double stars are believed to revolve in the subjoined periods: "a Coronæ in 43 years; ¿ Cancri, 57 years; ¿ Ursæ Majoris, 61 years; ¿ Ophiuchi, 80 years; a Coronæ, 200 years; Castor, 215 years; y Virginius, 513 years. In 1830 Sir J. Herschel measured 1236 double stars. The observation of astronomers should he steadily directed to the progressive changes of the fixed stars, for it is among them that great and rapid discoveries may be most confidently expected.

The occurrence of triple stars or of approximate conjunctions of three, is much rayer than that of Pairs, but still we find numbers sufficient to excite a profound interest. Struve has specified 11 sets of bright triple stars, that is of conjunctions of three hodies, within the space of 32" and none of which is too small to be seen with an ordinary telescope (none heing smaller than his 8th magnitude); and of these 11 the calculation of probabilities will not permit us to suppose that mora than one system owes its character to mere optical proximity. Systems of three suns connected by the physical law of attraction, and revolving perhaps round their common centre of gravity, are thus at once brought upou the scene. In another list our astronomer records 57 more within the sama distance of each other, but in which one attendant helongs to the class of smaller magnitudes,—a list containing likewise without doubt, many physical systems; and in a third series of 59 similar combinations, not confined, however, within the limits of 32" of distance, he axbausts our present knowledge of the subject.

These combinations of stars exhibit frelations of the most extraordinary and exciting interest. By long observation many of them have heeu found to bave regular motions round each other; to vary periodically in their amount of illumination, and to he adorned with complementary colours. Are these, then, the suns of space? Are they central luminaries of great planetary trains? That they are so, is heyond question; and "yet," says Nichols, "how wonde

NOTICES ON NATURAL HISTORY, &c.

SEPTEMBER.



THE WHINCHAT.

THE Whinchat is a solitary hird, frequenting heatbs and moors; it has no song, but only a simple unvaried note, and in manners very much resembles the stonechat; it makes its nest very similar to that bird, and is generally seen in the same places during the summer months; the female lays five eggs, of a lightish blue, very faintly sprinkled with small rusty spots. In the northern parts of England, it disappears in winter; but its migration is only partial, as it is seen in some of the southern counties at that season. It feeds on worms, flies, and insects. About the end of summer it is very fat, and at that time is said to be scarcely inferior in delicacy to the ortolan.

One of these hirds brought up from the nest by Mr. Sweet, used to sing the whole day through, and very often at night. It sang the notes of the whitethroat, redstart, willow warbler, missel thrush, and nightingale.— Yarrell.

arrell.

the whole day through, and very often at uight. It sang the notes of the whitethroat, redstart, willow warbler, missel thrush, and nightingale.— Yarrell.

THE great:annual husiness of the vegetable world heing now nearly concluded, Nature hegins to shew signs of her determination to rid herself of all superfluous ornaments and outworks, and to retire to her immost recesses. In the latter part of this month the swallow takes its departure to wanner climes. The other summer hirds are also gone from us—broods of young goldfinches appear—the linnets congregate. Few winter hirds visit us till the following month, yet we may see the woodcock, the fieldfare, and the ring ousel. The stormy petrel ventures further south than is her wont in brighter and milder weather; while many other sea hirds change their habitation, the sea gulls—the Manx puffin, and the Solan goose. Owls are more noisy in this month than hefore. Many of the sonsetrs of the spring resume their vernal notes, though with less brilliaucy and constancy than at an earlier period. The note of the woodlark is now in its greatest perfection. Many flies hecome hlind and die; yet a few other trihes of insects abound still more than duning the hot weather. The earwigs are found in every garden, and the spider's webs hsng on every hush. The gardens and tha hedge-rows are still gay, but their gayness is of a different character. Red, white, and blue colours in flowers are much less shundant than at an earlier season, and yellow flowers take their place. By far the greater number of the compound flowers are yellow, and this is the season of their greatest ahundance. The bright green leaves, which so lately wore an appearance of long-enduring life, and fluttered joyously in the hreeze, now assume a wan and sicklylook, aud rustle in the wind, which is soon to sweep them from their place of growth. Leaves are intended as an extension of the surface of plants, in order to facilitate the preparation of those juices which are necessary for their greatest abundance of pr number of these which we see in autumn engaged in this work of destruction. Many of these are extremely heautiful in form and colour; several of them are regarded as luxuries, and are extensively used, while others are extremely poisonous. A careful examination of them is necessary to secure us from the effects of mistaking poisonous for wholesome soris; but even the common mushroom is often unwholesome from its particular state or place of growth. It is a good general rule to take those only which are young and small, and to avoid those which are of a pale colour, or which grow under the sbade or drip

trees. With the retirement of our side of the earth from the sun, shorter days and With the retirement of our side of the earth from the sun, shorter days and cooler mornings and evenings become our lot. The animal as well as the vegetable world display their sense of this change; and those delicate and most correct of all barometers and thermometors—the migratory members of the bird trihe—act upon this feeling with a regularity and accuracy which excite our highest wonder, and merit the most careful investigation. The swallows, from being so much on the wing, and so constantly before our eyes, are the most observed; and may be seen about the end of the month congregating in vast numbers, preparatory to their departure. The precise period of this depurture is regulated by the mildness or severity of the weather, as in very warm antumns they linger till October, and even a few may he seen in November. To compensate for their absence, the redwing and fieldfare, which left us in March, now return.

ANNIVERSARIES, OCCURRENCES, AND FESTIVALS.

THE MOON.
New Moon 1st 10 58m.
First Qr. 8tb 11 31a.
F Moon 15th 9 56m.
Last Qr. 13td 8 14m.
New M. 30th 11 41a.

W

26 5

 $27 | \mathbf{M} |$

|29|W

31 F

A.n. 303-Battle of Agincourt, 1415

Bristol, 1831-Hogarth died, 1764

Sir Walter Raleigh beheaded, 1618

Allhallow Eve-John Evelyn born, 1620

M D

OCTOBER. — This month was called Domitianus, in the time of Domitian; but after his death, it was, by the desire of the senate altered to October, (so altered to October, (so uamed from two Latin words, Octo, and ember signifying the eighth month), every one hating the uame aud memory of so detestaty ant. The Sacons called it Wyn-month, or Wine-month, and Winter-falleth.

LY SEASON.

IN SEASON.

IN SEASON.

14 T.

15 W.

16 T.

16 T.

17 F.

18 S.

18 S.

19 S.

18 S.

19 S.

19 S.

10 S.

10 S.

11 S.

12 S.

13 S.

14 S.

15 W.

16 T.

16 T.

17 F.

18 S.

19 S.

19 S.

19 S.

10 M.

10 S.

10 M.

11 S.

11 S.

12 S.

13 S.

14 S.

15 W.

16 T.

17 F.

18 S.

19 S.

19 S.

19 S.

10 M.

20 M.

21 T.

22 W.

10 M.

22 W.

10 M.

23 T.

10 M.

24 T.

25 W.

26 M.

26 M.

26 M.

27 S.

28 T.

28 T

mences
GAME—Grouse, partridges, pheasants, bares,
snices, wild fowl.
VEGETABLES.—Artichokes, brocoli, celery,
leeks, onions, parsnips,
sbalots, spinacb (Win-

shalots, spinach (Wlaster), turnips.
Fautr.—Plant all sorts of hardy fruit trees. Protect fig trees and shield late grapes.
Prepare ground for new p...ntarions. All sorts of fuit seed may now be sown with greater advantage than in spring.
All kinds o game are well on the wing. Pheasants found near putators.

1	1	W	St. Remigius, Archbishop of Rheims, died, A.D. 535—	6	3	Э	35	0	1	40	2	0	
	- 1		Phessant Shooting begins Major André hung as a spy by the Americans, 1780			5	33	2	2	19	2	38	
	- 1		London University onesed 1828		C	=	9.1	3	9	53	3	12	
-	-3	F	King's College opened, 1831—Robert Barelay d. 1690	0			31					47	l
1	-1	S	Sir John Rennie died, 1821-Andrew Selkirk left on	6	8	5	28	4	3	30	ં	4/	
	5	S	the Island of Juan Feroandez, 1704 20th Sunday After Trinity—Horace Walpole,	6	10	5	26	5	4	6	4	25	
}	6	M	Louis Philippe, King of the French born, 1773	6	11	5	24	6		45		6	
.	7	Tree	Christophe, Emperor of Hayti, died, 1820	6	13	5	22	7	5	27	5	53	
		W	The Eddyston Light House finished in 111 days, 1759	6	15	5	19	D	6	21	6	50	ı
	0	Trr	St. Denys, Bishop and Martyr—Dutch fleet defcated,	6	16	5	17	9	7	23	7	59	
										45	9	29	
	10	F	Oxford and Cambridge Michaelmas term begins— Koscinsko defeated by the Russians, 1794—Nottingham Castle burnt, 1831	U	18	Э	19	10	O	40			
	11	$ \mathbf{s} $	Old Michaelmas Day—Canova died, 1822	6	20	U	10	7 7	10	10	1.0		
		S	21st Sunday Aft. Trinity—Wat Tyler killed, 1381	6	21	5	11			28	11	58	
1	13	M	Translation of St. Edward the Confessor, 1042	6	23	5	8	13			0	24	ı
	14	Tr	Wm. Penn born, 1644—Battle of Hastings, 1066	6	25	5				47		12	ı
		w	Murat shot for attempting to recover his Kingdom, 1815	6	27	5	4	0	1	33	1		
1	16	Тн	The Parliament Houses destroyed by fire, 1834	6	28	5	2	16	2	13	2	32	
	17	E	Sir Philip Sidney killed, 1586	6	30		0	17	2	52	3	12	
	18		St. Luke the Evangelist died, A.D. 70	6	32	4	58	18	3	30	3	48	
		S	22ND SUNDAY AFT. TRINITY—Dean Swift d. 1745	6	33	4	56	19	4		4	21	
		-	Talma, the Kemble of France, died, 1826-Henry Kirke White died, 1816	0	0.5		54	20	1	40	1	58	
	20	M	Battle of Navarino, 1827	0	35	4	54	20	5	16	5	36	1
	21	Tu	Battle of Trafalgar—Nelson killed, 1805	0	37	4	52	21	<i>-</i>	20	6	18	
	22	W	Lord Holland died, 1840—Sir Cloudesley Shovel	6	39	4	50	ZZ	Э	56	U	10	
	23	TTT	The Royal Exchange founded, 1667—Battle of Edg-	6	40	4	48	(6	43	7	7	
3	20		hill, 1642						7	40	8	20	
	24	\mathbf{F}	Edict of Nantz revoked by Louis XIV., 1685	0	42	4	46	24	0	42	0		
,	25	S	St. Crispin, Tutelary Patron of Shoemakers, martyred,	6	44	4	44	25	8	59	9	38	
	4		non Detale of Assessment 1415										4

23RD SUNDAY AFTER TRINITY—Great Riots at 6 45 4 42 26 10 14 10 49

28 T_U St. Simon and St. Jude, Apostles and Martyrs, A.D. 74 6 49 4 38 28 29 W Morland died, 1804—Hare hunting begins 6 51 4 36 29

30 TH Alfred the Great died, 900—buried at Hyde Abbey, 6 53 4 34 near Winton. The County Bridewell is built over the site of his grave—The Great Armoury in the Tower of London burnt, 1841

FLOWERS .- The folowing plants are now in flowers to follyhoek, Michlowers to follyhoek, Michlowers and dasy, stocks, masturtia, marizold, mignionette, heartscase, American groundsel, the dalhia, china asters, saffrou crocus, lavender, china rose, rocket, &c. The alkekengi now hor'ds up its searlet bladders encompassing a searlet cherry full of seeds. Barberries are now tarning red, snd give a presty aurumnal apperance to plantations and gardens. Binas — Fieldfares and redwings arrive, swallows and other birds take their departure. Various kinds of water-fowl make their appearance; and wild geess leave the fens and go to the rye lands to devour the young corn. Catterpillars are seen climbing tup to enter into the chrysalis state.

Sun M High Water at Lon SETS. AGE Bridge, morn. & ev.

5 35 6 1 46 2

6 48 4 43 27 11 20 11 50

1

6 55 1 32

1 13

1 50 2 29

0 11 0 33 0 53

1 31

RISKS.

Things to be remembered in October—1st, Mayor and assessors to hold an open court for revise the burgess lies as under the tendency of the town clerk, and to the court being given. The revised list to be kept by the town clerk, and persons thereinentered to be entitled to vote, according to the act, from the 1st of Nov. 13tb, Fire Iosurance due at Michaelmas must be paid by this day, or the policy becomes void. 10th, Annual Licence to be town of the town

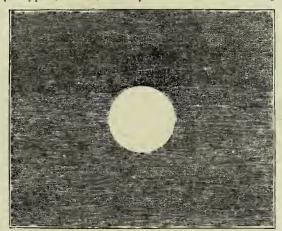
w.

OCTOBER, 1845.

SONNET.

THIS is the time for mute soliloquy.— Heart contemplation in a lonely wood,
Whose paths by many a fallen leaf bestrew'd
Lead you away as to Eternity,
From all the noise and trouble of this life, From an the noise and trouble of this fife, Soothing the soul with dreams of future bliss Although where'er you turn each scene is rife With Nature's quick decay!—But still from this We can imbibe by sympathy refin'd A resignation to our own defeat, By that arch-enemy, old Time, and find A thrilling pleasure—a reflection sweet That when his scythe is done—Himself at rest,— Immortals we may be amongst the blest!

ASTRONOMICAL APPEARANCES. To the illustrious Herschel astronomy is indebted for discovering a new primary planet—URANUS, which may be viewed this month to advantage.



That great man, while pursuing a design which he had formed, of making minute observations on every region of the heavens, on the 13th of March, 1781, observed in the foot of Castor, a small star, the light of which appeared to differ considerably from all others in its neighbourhood. On using a high magnifying power, it appeared evidently to increase in diameter; and two days afterwards he perceived that its place was changed. From these circumstances he concluded it was a comet; but it was not long before the error of this conclusion was determined, and the true character of his great discovery proved. Herschel named the planet Georgium Sidus, in honour of his zealous patron, George III; but foreign astronomers for a considerable time gave it the name of Herschel, but afterwards changed it to Cybele, Neptune, and finally to Uranus, the name of the astronomic muse. His distance from the sun is 1,800,000,000, miles; his nearest approach to the earth is at a distance of 1,705,000,000 miles; his orbit 11,314,000,000, through which he moves in 30,686 mean solar days, or about 84 years. The best time for viewing him is when he is on the meridian, or due south, which we find to be as follows:—on the 1st of the month, at 49 minutes past 11; on the 15th, at 52 minutes past 10; and on the 31st, at 47 minutes past 9. The "sixth satellite" should be earnestly sought, as its existence has been doubted.

This month is a good one for investigating the Milky Way.

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No one except Sir W. Herschel has ever seen all the satellites of Uranus.
Sir J. Herschel has very lately determined some elements of the first and second which accord very closely with those given by his father; be has not found the rest which may arise, from the unfavourable southern position of the planet. The periodic times deduced from his observations are respectively 8d. 16h. 56m. 3l.3sec., and 13d. 1lh. 7m. 12.6sec. The orbits are nearly circular, and almost perpendicular to the ecliptic, being inclined to that plane in an angle of 78°58'; and what is extremely remarkable, as contrary to the otherwise unbroken analogy of the solar system, the motions of the satellites in their orbits are retrograde, or from east to west.

It is, indeed, attractive, to revert to the neriod when the forty-feet telescope

It is, indeed, attractive, to revert to the period when the forty-feet telescope first interrogated these profound heavens! The enthusiastic observer in the act of discovery rises before the irragination, and the peace of midnight and the beauteous twinkling of stars. The astronomer, during these engrossing nights, was constantly assisted in his labours by a devoted maiden sister, who braved with him the inclemency of the weather—who heroically shared his privations that she might participate in his delights—who planned the labour of each succeeding night, who reduced every observation, made every calculation, whose pen committed to paper bis notes of observation as they issued from his lips; and she it was—Miss Caroline Herschel—who heiped our astronomer to gather an imperishable name.

The limits to the space-predicting power of telescopes is manifestly this:—

heiped our astronomer to gather an imperishable name.

The limits to the space-penetrating power of telescopes is manifestly this:—
No object fainter than the general light of the skies—a light constituted by the intermingling of the rays of all the stars—will ever be seen. Herschel calculated, however, that a telescope, at least three times more powerful than his, might be used. We are therefore led to rejoice that his speculations will be partly carried out by that high-minded and scientifio nobleman, Lord Rosse, who seems to love science for its own sake, and, uninterrupted by any desire for applause, has particularly distinguished himself by attaining an end which has been for a long time a desideratum to scientifio men—the production of large metallic reflectors. Until be accomplished the casting of his speculum, six feet in diameter, it was thought to be impossible; its focal distance is 52 feet; and its magnifying powermay be judged of hy the fact that a portion of the moon, the size of a common house, will be visible at one time, and the objects as they pass the meridional line, can be kept in the field of view or half an hour, therefore we may hope for great additions to this interesting department of science. department of science.

NOTICES ON NATURAL HISTORY, &c. OCTOBER.



STARLING.

STARLING.

In feeding they will associate with the rook, the pigeon, or the daw. There is something singularly curious and mysterious in the conduct of these birds previous to their nightly retirement, by the variety and intricacy of the evolutions they execute at that time. They will form themselves perhaps into a triangle, then shoot into a long pear shaped figure, expand like a sheet, wheel into a ball, as Pliny observes, each individual striving to get into the centre, &c., with a promptitude more like parade movements than the actions of birds. As the season advances these prodigious flights divide, and finally separate into pairs, and form their summer settlements.—Journal of a Naturalist.

Charles Waterton, whose practical observations on Ornithology are well.

Naturalist.
Charles Waterton, whose practical observations on Ornithology are well known, made twenty-four holes in the walls of an old ruin, near his residence in Yorkshire, to induce the starlings to remain and breed there. In the following spring each hole was occupied by a pair of starlings. He says, "The starling shall always have a friend in me. I admire it for its fine shape and lovely plumage; I protect it for its wild and varied song; and I defend it for its innogence."

defend it for its innocence."

Broods of young goldfinches appear, linnets congregate, and rooks are very noisy as they return bome at sunset; the little flycatcher disappears, and the owl hoots; butterflies and moths are still numerous, and lady-birds are often seen.

THE progressive decay of leaves, which had begun about the end of last month, proceeds with steady pace, and their vital actions and properties have beeu wrought upon, so as to cause the changes of colour and shrivelled aspect observable in the foliage of most of our trees. It is supposed that plants, in autumn, continue to absorb oxygen during the night, but lose the power of giving it out again, and restoring it to the atmosphere during the day, and that in this way some of the fulces become so acid as to change the colour of the rest. This may be the case to a certain extent, and in some trees; but it does not appear to apply to all. Those leaves which become red—such as the cherry—may be affected in this way; but this is far from being the general colour. The plane-tree acquires a tawny colour; the oak, a yellowis green; the hazel, a yellow; the syeamore, a dirty brown; while the maple becomes pale yellow; the hawthorn, a tawny yellow; horn-heam, a bright yellow; the ash, a fine lemon; and the elm, an orauge.

These varied hues give to woodland scenery, at this season of the year, its gorgeous appearance. He who now looks upon what he sees taking place before him, not merely with a painter's or a poet's eye, but with the spirit of a pbilosopher, has ample 100m for inquiry and investigation into the causes which enable some trees to retain unchanged their leafy honours, whileothers are compelled to resign them to become the sport and plaything of the wintry blast

are compelled to resign them to become the sport and plaything of the wintry

are compelled to resign them to become the sport and playtning of the whity blast.

What is termed the fall of the leaf has been the subject of numerous apeculations and hypotheses, all alike unfounded and unsatisfactory. It strikes us that the most universal and efficient, as well as most simple, cause of this act has been overhooked. What we are about to state refers merely to the fall, and not to the death of the leaf; the one of which actions is vital, while the other is, in a great measure, if not solely, mechanical. In what is termed the axilla or arm-pit of a leaf, that is, the point where it joins the stem or branch, upon careful inspection will be found a bud, or future stem or branch. This bud, in the greater number of trees, begins to swell in autumn; indeed in very warm seasons, it actually expands to its full size and length, as it should do in spring; and as this bud is always immediately above the old leaf, so in the process of expansion it pushes the footstalk of the leaf downwards, and causes it to break off at the joint or given point of connexion, which subsists between all leaves and the stem or branch. Evergreens retain their leaves till spring, as the buds in their axilla do not swell till that time. As a satisfactory proof that this is the real cause of the fall of the leaf, we may observe what happens when shrubs are transplanted. If by this operation the life of the plant be not destroyed, though the present leaves wither, new buds will exapend, and push the old leaves off; but if the vital principle be destroyed, the leaves will wither as before, but will remain attached to the stem—a circumstance which every practical gardener deems an evidence that the plant is stauce which every practical gardener deems an evidence that the plant is

dead.

Most seeds and fruits are now perfectly ripened, and furnish their share of subsistence to man, bird, and beast. This is a time of abundance, —a season of plenty.—and that portion which cannot be consumed at the period of its maturity is stored up in various ways, and by different means, as provision against a time of need. Though we boast not the vine and its clustering grapes, or tread its juice into our vats, the animation of the wine countries is nearly equalled by the hop-gathering and oider-pressing of our midland, western, and southern counties.

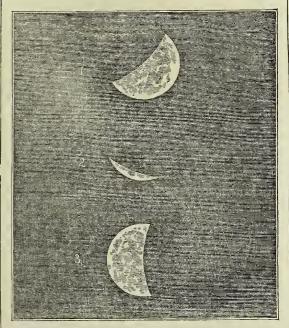


NOVEMBER, 1845.

SONNET.
THE mournful music of bleak forest trees,
The noisy gusbing of the yellow brook,
In miniature a Tyber, and the book
Of Nature's leaves wide scattered—the rude breeze
That comes uot gently, as it did in Spring
To fan the flowers with its dewy wing,
All lead the mind to sad philosophy, All lead the mind to sad puncsopny,
And make it ruminate upon the change
That is in motion quick eternally!—
Where or we turn—where'er our thoughts may range,
We see some emblem of our life's decay—
At least, upon this earth—if up we flee
On wings of thought where spheral minstrels play,
Immortal then we know ourselves to be!

ASTRONOMICAL OBSERVATIONS. ASTRONOMICAL OBSERVATIONS.

LATE in the night of the 13th, and early in the morning of the 14th, we shall be favoured with a large partial eclipse of the Moon. The eclipse will begin at Green which at 10 minutes after 11 o'clock, P.M., of the 13th; the Moon passing into the Earth's shadow, will present, at 43 minutes past 11, the appearance shown in our out (Fig. 1). As the orbs of heaven never stand still,



the Moon, gliding along her orbit, will get more deeply immersed in the shadow of our world, till, at 49 minutes past 12, 9 parts out of 12 of her surface will he eclipsed, when the greatest point of obscuration being reached, her appearance will be that shown in our second figure. At about 2 o'clock in the morning of the 14th, the Moon passing out of the shadow, will be seen in the form of our third figure. From that time the eclipse will rapidly dimnish, and at 28 minutes past 2, the fair luminary of night will recover her worted splendour.

diminish, and at 28 minutes past 2, the fair luminary of night will recover her wonted splendour.

The Moon will be in the neighbourhood of Venus on the 3rd, and on the 6th near Saturn; she will pass above the ruddy orb of Mars on the 8th, and on the 12th, she will appear near the hright planet Jupiter.

The revolutions of the Moon and the node are as 223 to 19, so that in every 19 years the eclipses are repeated.

Bai'ey and others, in observing the annular eclipse of May, 1836, near the entral path, observed such an optical, though peculiar protrusion in the Moon's limb on approaching and leaving the Suo, as led to the conclusion that it must have been produced by an atmosphere.

As there are 235 lumations or new Moons, in 19 years, within 1½ hour, the phenomena recur. 12 lunations are 354 days 8 hours 48 min. at d 36 sec. The hour and half is a day in 16 cyoles, or 300 years.

When the new Moon is within 18° of the node, there is an eclipse of the Sun; and when the full Moon is within 12° of the node, she will pass in the Earth's shadow, and be eclipsed. According to Séjour, an eclipse of the Sun can never he annular longer than 12 min. 24 sec., nor total longer than 7 min. 58 sec., and the duration cannot exceed two hours.

The Harvest Moon arises from the varied angle of the ecliptic with the horizon, so that the Moon rises several days within nearly an hour. In 1857 there will be a striking Harvest Moon.

The enlargement of the light part of the Moon, and the enlargement in the borizon, are optical illusions—one owinz to bright objects enlarging pencils of light, and the other owing to the mind placing the Moon at a greater distance—angle the same.

The Moon is 24 minutes longer in performing her orbit, when the Earth is in its perhelion than its aphelion.

In the karth and Moon, one of the two forces, the central, is the exact product of the Earth's orbit. The other force, the tengential, is the exact product of the Earth's orbit. The other force, the tengential, is the exact product of the Moon's librat

Owing to the Moon's libration in latitude, we sometimes see one pole, and then the other Bv the libration in longitude, more of the western limb is at times seen; and at other times more of the eastern.

The annual equation is the increase of the Moon's orbit and period when the Earth is in perihelion, and the decrease of orbit and period in aphelion.

NOTICES ON NATURAL HISTORY, &c.

NOVEMBER.



THE BLACKBIRD

THE BLACKBIRD

Like some other birds gifted with great powers of voice, the blackbird is an imitator of the sounds made by others. He has been heard to imitate closely part of the song of the nightingale; three or four instances are recorded of his crowing exactly like the common cock, apparently enjoying the sound of the responses made by the fowls of the neighbouring farm-yard, and Mr. Neville Wood, in his "British Song Birds," has mentioued an instance in which he heard a blackbird cackle as a hen does after laying.—Varrel.

The males, during the first year, resemble the females so much as not easily to be distinguished from them; but after that, they assume the yellow bill, and other distinguishing marks of their kind. The blackbird is a solitary bird, frequenting woods and thickets, chiefly of evergreens, such as holly, pines, firs, &c., especially where there are perennial springs, wbich together afford it both shelter and subsistence. Wild blackbirds feed ou berries, fruits, insects, and worms; they never fly in flocks like thrushes; they pair early, and hegin to warble nearly as soon as any other songsters of the grove. The female builds her nest in bushes or low trees, and lays four or five eggs, of a bluish green colour, marked irregularly with ducky spots. The young birds are easily brought up tame, and may he taught to whistle a variety of tunes, for which their clear, loud, and melodious tones are well adapted. They are restless and timorous birds, easily alarmed, and difficult of access; but Buffon observes that they are more restless than cunning, and more timorous than suspicious, as they readily suffer themselves to be caught with bird-lime, nooses, and all sorts of snares. They are never kept in aviaries; for, when shut up with other birds, they pursue and harass their companions in slavery unceasingly, for which ber asson they are generally confined in cages apart. In some counties of England, this bird is called simply the ouzel.

Most of the feathered tribe are now mute; the blackcap, the c the ouzel.

Most of the feathered tribe are now mute; the blackcap, the chiff-chaff, and the yellow-hammer are occasionally beard Moths and butterflies abound, and the glow-worm shines at twilight hours. The death-watch beats, and the grasshopper sings.

This month is commonly made the subject of unmeasured disparagement, and has applied to it epithets calculated to give that gloomy tendency to the mind which the appearances themselves do not always occasion. It cannot be denied that

The year's departing beauty hides Of wiotry storms the sullen threat,

and that the landscape is no longer pranked in the gay attire of the summer months; but it is not difficult, when the mind is imhued with

That spirit which, undimined by toil,

That spirit which, undimined by toil,

Spreads over eartb and air

A charm—a glory—a delicht—

Making the very tempest bright,

to discover a moral beauty, hy observing the fitness of means to ends which characterize all the operations of nature.

The cloud-compelling winds, which to the melancholy mind, sound, as they rush through the forest, like

Nature's sick convulsive sighs,

Nature's sick convulsive sighs, are the agents by which the dry and withered leaves are detached from their slight holds, and diffused over the surface of the earth. The rains and the fogs supply that moisture which is necessary to effect their decomposition, and which is greatly assisted by the warmth still retained by the earth, and ohtained from the air during the change of the vanour into rain. A provision is made for the future crops by the decomposition of the remains of the former. But verdue is never wholly absent from the earth: the fogs and general bumidity of this season revive the mosses, which had been shrivelted by the droughts of summer. This pleasant renovation of mosses has been so correctly and picturesquely described by Linnæus, that we here introduce the passage:—"When all around us hecomes torpid and languid—when the rivers cease to flow, and the cheerful voices of the grove are silent—when snow covers the plains, and nought is heard but sounds of lamentation—when the face of the country is desolate, presenting only a sad image of death—then the mosses, emerging as it were from among the rains of vegetation, and shining in silken hues, clothe the naked rocks and stones."

The leaves of mosses display a structure more be autiful than is to be observed in the foliage of the loftest and most enduring tree of the forest; the examination of them by the microscope will open up to us a new wonder and de ight.

and de ight.

Fors have a remarkable influence upon some birds: during a fog of twentyfour hours continuance, thrushes wheat-ears, ortolans, and red-breasts, are
reported to become so fat that they are unable to fly from the sportsman.

THE MOON.

First Qr. 6th 2 52 m Full Moon 13th 6 42 a. Last Qr. 21st 11 27 a. New Moon28th 10 53 a.

New Moon:28th 10 33 A. Decemaea is derived from the Latin words Decem and smoor, although its place in the calendar is different from that originally assigned to it. By our bason ancestors it was styled Binter-monath, i. e. Winter month; upon their conversion to Christianity, they named it Helighmonath, or Iloly month, or Iloly month, or to Christianity, they named it Heligh-monathor Holy month, They also called it Midwintermonath, Guilerra, which means the former or first gwil. Guil, now corrupted agule, was the feast of Thor, celebrated at the winter sulstice, and so winter solstice, and so called from iol or ol, which signifies all.

IN SEASON.

FISH.—Barhel, brill, carp, cod, cockles, crabs, dace, cels, haddocks, herrings, ling, lohsters, mussels, nike, oysters, perch, plaice, shrimps, skate, smelts, soics, sprats, tench, whitings.

Mrar, as in Novemher. Mutton is heat from Christmas to Mideummer.

19F

20 S

21 5

 $22 \mathrm{M}$

24 W

26 F

27 S

28 5

Gray born, 1716

Holcroft born, 1744

23 Tu Abdication of James II. 1688—Antwerp surrendered, 8

from Christmas to Midaummer.
Poutray. — Geese, turkeys, pullets, pig-eons, capous, fowls, chickens, rabbits, guiace fowls.
CANE.—Woodcocks, anipes, pheesants, dunhirds, capous, wildfowl, partridges, grouse.
VKGETABLES.—Bore-VKGETABLES.—Bore-

VEGETABLES.—Bore-cole or Scotca kale, brocoli cardoons, celery, leeks, onions, shalots, s, inach (Winter.)

FRUIT. — Continue
to prune. Trench, diz,
a d sidze up the soil.
briten yindry wea her.

	2	$T\mathbf{u}$	Napoleon crowned, 1804—Battle of Austerlitz, 1807	7	47	3	52	3	3	37	4	0
	2	w	St. Paul's Cathedral finished, 1710—Mariners' Compass invented, 1300 Flaxman died, 1826—Belzoni died, 1823	7	18	2	52	1	1	25	1	40
								_				-
	1	1	Cardinal Richelieu died, 1642—Hobbes died, 1679			1			5	13		39
-	_	F	Mozart d. 1792—Macbeth K. of Scotland killed, 1056						6	- 7	6	
			St. Nicholas, died in Lydia, A.D. 392				50			59	7	30
	7	S	2ND SUNDAY IN ADVENT—A. Sidney beheaded, 1683	7	56	3	50	8	8	2	8	38
			Conception of the B.V.M.—Mary Queen of Scots							13	9	47
i	9	$T_{\mathbf{U}}$	Colley Cibber died, 1732—Gay died, 1732—Milton	7	55	3	49	10	10	21	10	57
.	10	337	horn, 1608 Character and Great Panis of 1905 com	Ì-,	5 7	9	40	11	11	21		
	10	ĮΨ	Grouse Shooting ends—Great Panic of 1825 com- menced-Charles XII. killed, 1718	1	97	0	49	11	11	31		
	11	Тн	Louis XVI. brought before the National Convention,	7	58	3	49	12	0	1	0	27
	12	F	Lord Hood born, 1724—Cromwell declared Protector,	7	59	3	49	13	0	51	1	13
		_	1653		_							- 0
	13	S	St. Lucy, Virgin and Martyr, died, A.D. 305—Dr. Johnson died, 1784—Lord Ellenborough died, 1818	8	0	3	49	0	1	36	1	56
	14	S	3RD SUNDAY IN ADVENT—Washington died, 1799	8	0	3	49	15	2	16	2	37
	1.5	м	Izaak Walton died, 1683 Earl Stanhope died, 1816	0	1	2	49	16	0	55	2	19
				0	-							
	16	TU	The Gregorian Style, or Computation of Time adopted	8	2	3	49	1/	3	28	3	4/
	17	W		8	3	3	49	18	4	3	4	20
			General Bolivar, founder of the celebrated Bolivian				49		_	37		54
- 1	-		Republic, died, 1830				- 1	ı		- 1		
	10	E	The management of the Emmanon Manalogue often haired	0	4	2	EA	00	-	1 1	-	21

The remains of the Emperor Napoleon, after being 8 brought from his Island Grave at St. Helena, were on this day deposited, in the Church of the Invalides at Paris with surpassing pomp and national sympathy—Dr. Darwin died, 1732—Tycho Brache born, 1586

4TH SUNDAY IN ADVENT-St. Thomas, Shortest Day 8

St. Stephen, the first Christian Martyr, stoned to 8

IST SUNDAY AFTER CHRISTMAS-Innocent's Day, 8

in commemoration of the massacre of the children, hy command of Herod King of Judca—Malthus the anti-Populationist died, 1834

Christmas Eve-Robin Hood died, 1247

St. John the Evangelist died, A.D. 100

25 TH Christmas Day—Nativity of our Saviour

45 3 53

43 50 20

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7|3 53|25|

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5 49 6

6 27

7 11

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1 49 2 13

8

7 3 53 26 10 23 10 58

0 3 0 31

8 3 54 27 11 32

2 2 38 3 5

8 3 58 3 3 29

5 31

6 48

8 39

9 49

3 52

1 M Leo X. died, 1521—Alexander of Russia died, 1825

FLOWERS. — The vegetable kingdom affords hat few charms at this senson of the year, either in the fields or gardens. Plants screened from cold, and placed in sunny windows, appear heautiful.

BERDS.—Small birds, expecially of the finely

heautiui.

Bians.—Small birds,
especially of the finch
tribe, creep near our
dwellings for shelter
and food; the little
wren sings nmongst
the snow; and our old
fined to him is musical

friend rohn is musical in all weathers. Very frew inserts are seen.

Kittenen Gannax—
— Celery should now be earthed up, and in a not to require the operation again; force separacus, also rhu-harh (the Elford), and sea-kale; lay in as early as possible this month the brocolis, hoth purple and white; if the weather he severe, it would be judicious to cover the ridges of celery with either litter or soft meadow hay; the tops of the celery should be looked to.

The Fann.— The approach of Christmas raises the demand for herf. But the article which fetches the best price in this month is what is called "house lamh." December will all ways he doing something, for eart horses never do well in iddeness.

cart norses never as well in idleness.

Things to be remembered in December,—Forget not the Christmas festivities, nor neglect to ascertsin how affairs stand with recard to your families, your hodies, your souls. Time is the most irresistible of all innovations; but if you have hult on a right foundation for eternity, you need not fear him. Those is the fear him the control of t

w.

DECEMBER, 1845.

SONNET.

How different are the closes of each year. Old Nature seems to change her garb, and dress With all her child's (air woman's) fickleness! For sometimes at this season she'll appear For sometimes at this season she'll appear In rohes of snowy whiteness—sometimes clad In rainbow hues of summer morning skies, Bedeck't in field and grove with thousand dyes Of gaiety—and then again as sad Will be her gloomy cloak and stormy train! Alas! how like the closing hours of life! Some Hope-led, smiling on fheir present pains—Others, with horrors, darkly impending, rife,—Some scoffing at the sun-set of their soul.* On Earth !- some running upwards to Heaven's goal !

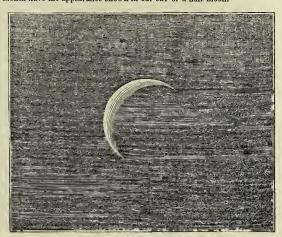
Vide the account of Rousseau's last hours.

ASTRONOMICAL APPEARANCES.

THE brilliancy of Venus will be such that, towards the end of the month, she will give sensible shadows to objects, and seem to shine like a little moon, cheering the long evenings of December, and leading us to think even Cuningham scarcely extravagant in her praise when he says—

> Gom of the orimson-coloured even, Gom of the orimson-coloured even, Companion of retiring day; Why at the closing gates of heaven, Beloved star, dost thou delay? So fair thy pensile beauty burns When soft the tear of twilight flows; So due thy plighted steps returns
> To chambers brighter than the rose.

May we not hope, also, that as the season of Christmas approaches, the huightness of our favourite star may lead us in the multitude of its tender associations to Him "who made the worlds"—"The Star of Bethlehem?" Venus, seen with an ordinary telescope, will, about the 3rd week of the month have the appearance shown in our cut of a half moon.



On the 19th, Venus and Saturn will he in conjunction, when they will appear according to the annexed figure, the hrighter object of course representing Venus; but through a good telescope of inverting power they will be seen as follows.





When the elongation of Venus is 39° 44' between its inferior conjunction and greatest elongation, it appears brightest; for then, though its phasis be hut the 53-200ths of a circle, it is so much nearer the earth than in its superior conjunction, when it appears with a perfect disc, that the want of surface is more than compensated by intense light. In that situation, Venus is often seen by the unassisted eye in broad day-light. When Venus is to the west of the sun, it rises before the sun, and is called a morning star, this appearance continuing ahout 290 days together.—When it is to the east of the sun it sets after, and is called an evening star, for ahout the same period of 290 days.

There will be no transit of Venus till December 8, 1874; and no other

thit 2004.

Thirteen periods of Venus is nearly equal to 8 of the earth, and they return to similar positions in 239 years.

The plane of Saturn's riogs is that of his equator, a further proof that tha ring is an effect of centrifugal force. If the earth's rotation was such that parts flew off in tangents, they would he likely, at a given distance, to produce the regular form of a ring.

NOTICES ON NATURAL HISTORY, &c.

DECEMBER.



THE REDBREAST.

THE red-hreast, sacred to the household gods, Wisely regardful of th' emhroiling sky, In joyless fields and thorny thickets leaves In joyless ficlds and thorny thickets leaves His shivering mates, and pays to trusted man His annual visit. Half afraid, he first Against the window heats; then hrisk alights On the warm hearth; then, hopping o'er the floor, Eyes all the smiling family askance, And pecks, and starts, and wonders where he is; Till, more familiar grown, the table crumbs Attract his slender feet.

THOMSON THOMSON.

ALTHOUGH the redbreast never quits this island, it performs a partial migration. As soon as the business of incubation is over, and the young are sufficiently grown to provide for themselves, he leaves his retirement, and again draws near the habitations of mankind: his well-known familiarity has attracted the attention and secured the protection of man in all ages; he haunts the dwelling of the cottager, and partakes of his humble fare; when the cold grows severe, and snow covers the ground, he approaches the house, taps at the window with his hill, as if to entreat an asylum, which is always cheerfully granted, and with a simplicity the most delightful, hops round the house, picks up crumbs, and seems to make himself one of the family.

The young redbreast, when full feathered, may be taken for a different bird, heing spotted all over with rust-coloured spots on a light ground; the first appearance of the red is about the end of August, but it does not attain its fall colour till the end of the following month. Redbreasts are never seen in flocks, but always singly; and when all other hirds associate together they still retain their solitary habits.

THE same circumstances exist throughout this month as the former, but the

THE same circumstances exist throughout this month as the former, hut the changes are less rapid; for while the humidity is greater, the warmth is less, and therefore the process of decomposition goes on more slowly. In more northern climes the cold now begins to be severely felt, and a greater number of hirds, mostly aquatic, and chiefly of a large size, such as the wild swan and laughing-goose, pay us a brief visit.

Our old friend rohin is musical in all weathers; the little wren sings amongst the soow; and hirds of the finch tribe creep near our dwellings for shelter and food, all tending to enliven the cheerless scene.

The intense cold of January, and still less the moderate cold of December, cannot prevent the laurustinus from unfolding its white and enduring hlossoms, which contrast strongly with the red and shining herries of the prickly holly. The pine trees still retain their sombre ueedle-like leaves, which attract our attention when the gayer and gaudier foliage of the other forest trees has mouldered into dust. The mind now eagerly rests upon every thing which gives proof of prolonged existence, and which continues to assert the supremacy of nature over the destructive agents now at work. This is a season of the year when the short days preclude our spending much time in the open air and in the active observation of nature; but we would not have it supposed that, even at this time, when universal nature seems to sink into a death-like slumher, the naturalist is iucapable of detecting proofs that she still retains the principle of life; of this the numerous mosses, lichens, and even fungi, are sufficient evidence.

Vegetation is arrested when the heat is too little to prevent the crystallization of the fluids, and keep up the circulations. Great summer heats confer strength on the rest terms the principal confer

Vegetation is arrested when the heat is too little to prevent the crystallization of the fluids, and keep up the circulations. Great summer heats confer strength on trees, to enable them to hear frosts; and long tap roots, which descend into depths of warm earths, old trees, whose layers protect the pith. and fluids mixed with resins stand the cold of winter best. But snow and ice heing had conductors of cold, when the ground is covered with snow, or the surface of the soil frozen, the roots or hulbs of placts beneath are protected by the congealed water from the influence of the atmosphere, and this water becomes the first nourishment of the plant in early spring. The expansion of water during its congelation, at which time its volume increases one-twelfth, and its contraction in hulk during a thaw, tand to pulverize the soil, to separate its parts from each other, and to make it more permeahle to the influence of the air.

soil, to separate its parts from each other, and to make it more permeable to the infinence of the air.

Circumstances and customs induce all now to take a retrospective glance at the year which is past; and we cannot but hope that they who have learnt to look npon nature with the eye of an affectionate child, will have found in each month, as it passed, something to excite their wonder and admiration. Feelings of a more exalted kind should he excited by a recollection of the numerous blessings they have enjoyed, each suited to the revolving season, and the thoughts raised with increased fervour, in grateful acknowledgment to Him from whom they flowed—"the Giver of every good and perfect wift."

THE TIME BALL,

ROYAL OBSETVATORY, GREENWICH.

THE keeping of true time is important to all persons; but to those engaged in navigating the "trackless seas," it is of such consequence, that the government, since the time of Flamsteed, the first Astronomer Royal, have not hesitated to expend large sums of money for its discovery, preservation, and announcement to the world. The business is now concentrated in the Royal Observatory at Greenwich, where, from the beauty of the instruments,

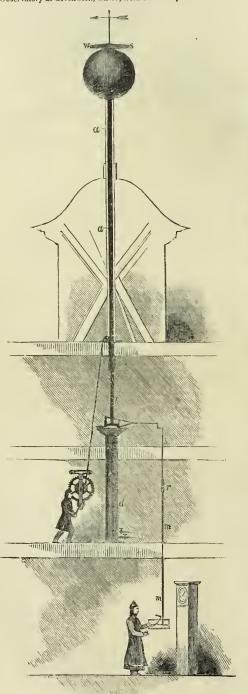


Fig. 1

the exactitude of the doservations, and the high scientific ability of the officers engaged, the once difficult problem of finding the precise instant when one o'clock touches the world's history, is no longer a matter of doubt

when one octors touches the world shistory, is no longer a matter of doctor or difficulty.

The present establishment at the Observatory, was brought into operation about ten years ago, when the resolution of the Lords of the Admirally to publish the mean solar time at Greenwich, once in every day of the year, at

one o'clock P.M. was first observed, and where the practice, without a single intermission, or the most trilling inaccuracy, has been continued ever since.

The sidereal time is ascertained from regular observations of the transits of certain stars over the meridian, whose places have been carefully determined; and from these, the proper data are obtained for finding the mean solar time.

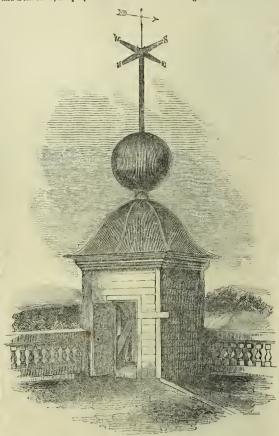
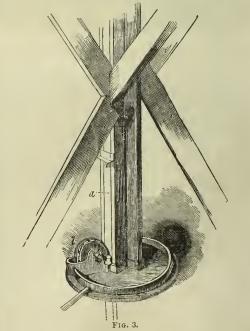


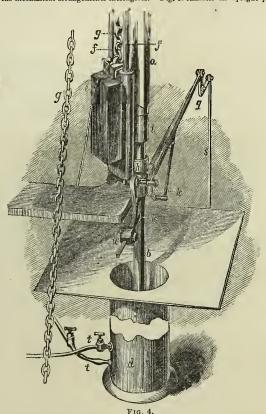
Fig. 2.

To go into the minutiæ of these operations would be beyond our province; we shall therefore confine ourselves, as far as matters of detail are concerned

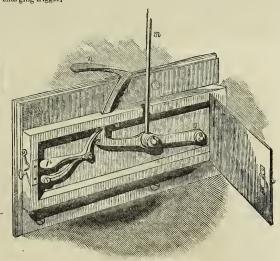


to a description of the apparatus by which the regular publication of the time is effected.

The hour of one o'clock is announced by the descent of a large hlack hall, from the summit of a pole, which surmounts the north-western turret of the Observatory; a position singularly favourable for its exhibition to mariners on their progress down the adjacent river Thames. The apparatus, described in the simplest terms, may he said to consist of a hoist for raising the ball, a trigger and discharging gear for its liheration, and a clock, regulated hy observation, for giving the required moment of time. The cuts will make the mechanical arrangements intelligible. Fig. 1. exhibits an upright plan



of the first, secend, and third floors, on which the apparatus is placed, and a section of the turrets which carries the hall a a, the supporting shaft hearing the ball on its top and terminating below, at b, in a piston, which works in an air cylinder, d, and hy which the too sudden descent of the ball is prevented m, r, s, a combination of rods and levers connected with the discharging things. charging trigger.



F16. 5.

rig. 2. The Ball Turret, viewed from the top of the Observatory, with the hall down.

Fig. 3. Apparatus in the Turret-house. a, the triangular supporting shaft; b, the pulley over which passes the chain for raising the ball. Fig. 4. Apparatus of the second and third floors. a, triangular supporting shaft; b, piston rod; d, cylinder; e, a weight, having a collar h, which when raised by the chain g, elevates the supporting shaft; f, f, from guiding

rods; k, k, catches for fixing the piston, when the hall has been hoisted to the top of the pole; s, rod, by which the piston is set free from the grasp of the catches; t, t, cocks for regulating the discharge of air in the cylinder.

Fig. 5. The discharging trigger, placed in the first floor of the Time-hall apartments. m, iron discharging rod; n, trigger; o, axis of the trigger; p, spring for holding the trigger till the hall is dropped.

Fig. 6. Windlass placed in the second floor, for "winding up," or raising

Fig. 6. Windiass piace in the second the state to the hall.

Before elevating the hall at 5 minutes to 1, a signal is made of the intention to do so, hy raising it "half mast high." Observers should then get their chronometers ready, and as the descent of the hall occupies several seconds, they should confine their attention to the moment when the ball leaves the top, as, it is that, only, which indicates the hour.

The uses of this practice are, as we have already hinted, both various and important. We have only to mention, that observations on the drop of the

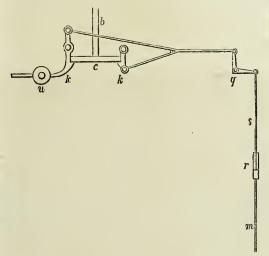


Fig. 4

ball, repeated day after day, will give not only the error of clocks, &c., but also their daily rate. Thus, if your clock shows 1h. 3m. 5s. at the dropping of the ball, you will he assured that your clock is in error 3m 5s. being that amount hefore Greenwich mean solar time. Again, if at the dropping of the ball your clock shows 56s, 55m. past 12, your clock will be also in error 3m. 5s. hut it will that amount after Greenwich mean solar time.

If on a certain day you have noticed your clock to show 1h. 3m. 5s. at the dropping of the ball, and the day after to show 1h. 3m, 7s. then you will know that your clock has gained 2 seconds in 24 hours. But, if instead of 1h. 3m. 7s. your clock should show 1h. 3m. 3s., then it will have lost 2 seconds in the 24 hours.

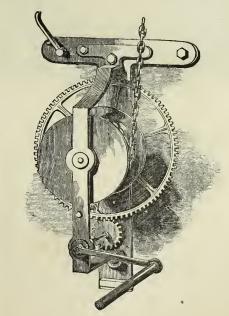


FIG. 6.

The mean time at Greenwich being known, the mean time at other places may be ascertained, when the longitudes are known. Thus, the longitude of Portsmouth is 4m. 24s. in time, west of Greenwich, consequently, when it is one o'clock at Greenwich, it will then want 4m. 24s. to one at Portsmouth. The longitude of Cambridge is 23\frac{1}{2}s. east, therefore at the moment of one o'clock at Greenwich the time at Cambridge will be 1h. 0m. 23\frac{1}{4}s.

NEW COMETS.

THE two Comets, of which illustrations are annexed, have appeared during

A beautiful comet has recently appeared in our northern heavens, but whether it be a new one—that is, one that has previously escaped the observation of astronomers—can only be determined by further observations on its orbit. It has passed ϕ Bootis, μ Corona Borealis, and on the night of July 23, when our drawing was made, it was not far from μ Bootis. Its daily change in R. A. = —4 m. 30 s.; ditto in N. E. D. = \pm 44 m. In its course towards the sun, it rapidly approached the earth, a circumstance which caused timid and visiouary people some alarm. The fever of apprehension was not, however, so great as that which disturbed the Parisian population in 1773, when a similar phenomenon occurred. On that occasion, many persons are said to have died of fright; while numbers prepared for the worst by purchasing—what were offered at high premiums—places in paradise. To relieve the fear of such a catastrophe, we may inform the public of the result of some very curious and elaborate calculations made by Arage to show the extremely small probability of a contact between ourselves and A beautiful comet has recently appeared in our northern heavens, but wheof the result of some very curious and elaborate calculations made by Arago to show the extremely small probability of a contact between ourselves and any comet whatever. "Let us suppose," says that great man, "a comet, of which we only know that at its perihelion it is nearer the sun than we are, and that its diameter is one-fourth of that of the earth, the calculation of probabilities shows that of 281,000,000 of chances, there is only one unfavourable, there exists but one which can produce a collision between the two

bodies. As for the nebulosity, in its most general dimeosions, the unfavourable chances will be from ten to twenty in the same number of two hundred and eighty one millions. Admitting then, for a moment, that the comets which may strike the earth with their nuclei, would annihilate the whole human race, then the danger of death to each individual, resulting from the appearance of an unknown comet, would be exactly equal to the risk he would run if in an urn there was only one single white ball, of a total number of 281,000,000 balls, and that his coudemnation to death would be the inevitable consequence of the white ball being produced at the first drawing."

The comet is of a bright white colour, with its tail turned from the earth. Stars of small magnitude are seen through its body. Its luminosity was so intense that it was easily detected during the bright sunsets of July.

We are indebted to the Astronomer Royal, for permitting our artist to make the drawing from which our cut is engraved.

the drawing from which our cut is engraved.

The second "mysterious stranger" was introduced to the English public by Sir James South, who, in a letter which he received from his friend, Professor Schumacher, was informed that a comet had been discovered on the 6th of September, by Mr. Melhop, of Hamburgh. Owing to unfavourable weather, Sir James South (at the Observatory, Kensiogton.) was not abble to see this comet till the evening of Sept. 15, when the clouds having cleared off for a few minutes, Sir James found it with an ordinary night-glass, without difficulty, and got an observation of it with his five-feet equatorial, by which its approximate place was, at 52 minutes past 10 o'clock, on the night of the 15th



THE NEW COMET, DISCOVERED IN JULY, 1844. DRAWN AT THE ROYAL OBSERVATORY, GREENWICH.

-right ascension, about 0 hours, 44 minutes, and 9 seconds; and its southern declination about 12 degrees and 55 minutes.

By the following positions of it, there was no difficulty in finding it on any clear night during the ensuing week:

Comet's Altitude.

Comet's Comet's

Hour. Thursday 9 Deg. Bearing. S.E. b E. Bearing. S.E. b E. Hour. Monday 10 S.E. b S. S.E. S.E. b S. 14 16 20 S.S.E. 12 24 S. b E. 12 25 25 24 27 s.s.w. 8. b W. 26 S.W. b S. S.W. S.W. b S. S.W. 3 21 3 52 16

We lost no time in endeavouring to prooure a correct frawing of the comet's appearance, but owing to the continuance of cloudy and hazy weather, we were not able till late on Thursday night to get a view of sufficient clearness for the purpose. At that time, favoured by the assistance of Sir James South, and the use of his powerful instruments, we succeeded in getting the sight from which the accompanying cut has been engraved. The comet appeared to be composed of a brilliant, well-defined nucleus, four or five seconds diameter, and a broad luminous tail of about two degrees in length.

Upon the extraordinary Cometary appearance in the spring of 1843, we find the following observations in Professor Nichol's Contemplations on the Solar System:

Solar System:

Solar System:

"Early in the recent year, 1843, an object appeared in the Heavens that must have astonished many worlds besides ours. Situated in the region below the constellation Orion, it had the appearance of a long auroral streak, visible immediately after sunset, and evidently pursuing a course through our system. Unfavourable weather concealed it from me until the 25th of March, when it presented the dim and strange appearance I have shown in the frontispiece. The beginning or head of this streak, although never observed here, was often seen is southerly latitudes, whore it appeared like a very small star with an enormous misty envelope; behind

which that immense tail streamed through the sky. There is no reason to believe that this nucleus was in reality a star, but only a denser portion of the nebulous substance of which the whole object was composed; for with other apparitions of the same kind, whose brighter parts looked like a star, the application of a very small telescopic power has always been enough to dissipate the illusion, and to resolve what seemed their solid region into a thin vapour.

thin vapour.

This extraordinary visiter was measured, and the nature of its path detected; and certainly the results of these inquiries caused us to look on it with still greater wonder. The diameter or breadth of its nucleus was rather more than a hundred thousand miles; and the tail streaming from it, which in some parts was thirty times as broad, stretched through the celestial spaces to the enormous distance of one hundred and seventy millions of miles, or about the whole size of the orbit of the Earth. Nor were its motions less singular. Unlike any globe connected with the Sun, it did not move in a continuous curve, which, like the circle or ellipse, reenters into itself, and thus constitutes, to the body that has adopted it, a fixed, however cocectric home: but spying our luminary afar off, as it lay amid those outer abyses, it approached along the arm of a hyperbola; rushed across the orderly orbits of our system into closest neighbourhood with the Sun, being at that time apart from him only by a seventh part of our distance from the Moon; and, defying his attraction, by force of its own enormous velocity, which then was nothing less, in one part of its mass, than one-third of the velocity of light, it entered on the other divergent arm of its course, and sped towards new immensities.

"It was when retiring that this unexpected visitant was seen for a brief period."

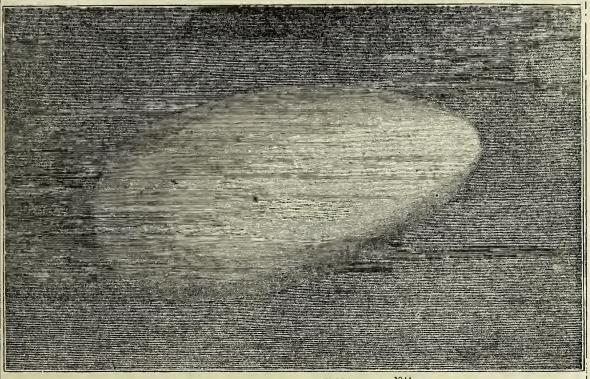
immensities.

"It was when retiring that this unexpected visitant was seen for a brief period in Europe. In the course of its approach, it must have passed between us and the Suu, causing a Cometic eclipse, and, in so far, an interception of his heating rays; but that occurred during our night.

"And now, what is to be made of this extraordinary apparition? what is its bring concerning the structure of the Universe? Its relations with our system? and what new revelation does it bring concerning the structure of the Universe? Its relations with our system appear to have been few and transitory; and in this it resembles the probable millions of such masses, that have, since observation began, crossed the

planetary orbits towards the Sun, and after bending round him, gone in pursuit of some other fixed star. No more than three are known to belong, properly speaking, to the scheme dependent on our luminary—Encke's, Biela's, and Halley's; but though these do revolve around him in fixed periods, the circumstance must be regarded in the light of an accident, their orbits being wholly unlike any other, and having little assurance of stability; for as they cross the planetary paths, every one of them may yet undergo the fate of Lexell's, which, by the action of Jupiter, was first twisted from its diverging orbit into a comparatively short ellipse; and then, after making two consecutive revolutions around the Sun, so that it might have begun to deem itself a denizen, was, by the same planet, twisted back again, and sent off, never to revisit us, away to the chill abysses! Strange objects, with

homes so undefined—flying from star to star—twisting and winding through toituous courses, until, perhaps, no depth of that Infinite has been untraversed! What, then, is it your destiny to tell us? To what new page of that infinite book are you an index? We missed, indeed, only very narrowly, an opportunity of information, which might have been not the most convenient; for the Earth escaped being involved in the huge tail of our recent visiter, merely by being fourteen days behind it. For one, I should have had no apprehension, even in that case, of the realisation of geological romances, viz., of our Equator being turned to the Pole, and the Pole to the Equator—the Ocean, meanwhile, leaping from its ancient bed. But if that mist, thin though it was, had, with its next to inconceivable swiftness, brusbed across our globe, certainly strange tumults must have occurred in the atmosphere; and pro-



THE NEW COMET DISCOVERED IN SEPTEMBER, 1844.

bably no agreeable modification of the breathing medium of organic beings. bably no agreeable modification of the breathing medium of organic beings. Right, certainly, to be most curious about comets; but prudent, withal, to inquire concerning them, from a greater distance than that: although one night in November, 1837, I cannot be persuaded that the Earth did not venture on a similar, but comparatively small experiment. It was when our globe passed from the peaceful vacant spaces into that mysterious meteor region. The sky became inflamed and red as blood; coruscations, like Auroras, darted across it; not as usual, streaming from one district, but shifting constantly, and sweeping the whole Heavens."

Nichol observes that "these hazy hodies, now and then reaching our system, and leaving it without ever operating an appreciable effect, are not spectral and isolated monstra! As all things have a home in nature, they too doubtless hold relations with some grand external scheme of matter in a state of similar modification: and since, when influenced by the sun's attraction, they approach us from all quarters of the heavens, the nebulosities in which they have their root, must lie around us on every side, and be profusely scattered among the intervals of the stars. What an error to fancy these comets anomalies! They demonstrate that, which, as we have seen, is required to make a large and varied series of phenomena explicable. They are, in fact, absolutely indispensable; for without them the conjectural disclosures of the telescope would scarcely be established. And in accomplishing this service, they have also vindicated their own position; so that we have at once two of our best imitations that knowledge is advancing,—remote phenomena appear in closest relationship, and objects and occurrences formerly deemed insignificant, assume a place as constituents of the compact fabric of the Universe."

An eminent lyric poet has penned the following

An eminent lyric poet has penned the following

HYMN

ON THE OCCASION OF THE ABOVE ASTRONOMICAL VISITATION.

How beautiful is all this visible world! How glorious in its actions and itself!—BYRON'S Manfred.

If there he aught throughout the pearly deep of Henven's unfathornable ocean wide,
That doth affect man's soul
With wonder and delight
Beyond the rest of vast creation's wealth
'Tis Thou, mysterious star!

Thou comest whence no mortal seer oan know— Thou goest whither nothing human dreams—

Thy mission, tho' so bright Is Speculation's gloom! We can but gaze upon the starry dust* Thy lightning wheels up turn.

Along Heaven's road, and call thee charioteer, Along Heaven's road, and call thee charlower,
Or names which prove that man cannot baptize
Such giant births as thou
With aught descriptive term!
Comet, or fiery star, or feeding light
To myriad viewless suns,

Which trim their lamps at the renewing fount! Or art thou some watch-angel on his rounds,
To see if drowsy guards
Neglect the camp of Heaven,
And leave an outpost for the Fiend to pass
As once of old he did?

Thou mayst be, Light incomprehensible! A moral messenger enjoin d to check Our mind's poor vanity, That doth imagine all The secrets of the Omnipotent are found !--We can't unravel THEE!

Roll on, thou child of wedded time and space, Eccentric offspring of eternal power,— Be thy portent to us Or good or ill, the same— We'll pay thee symbol worship for thy cause, And in submission bow.

Com'st thou in anger, we will not repine— Com'st thou in harmless beauty, we'll adore, And through thee bless the ONE Who by his simple word Can call creations like to thine from nought, And end them all again !-

Beautiful—lustrous as the heavens can be On vernal nights with their commission d stars, How much more do they seem,
When unaccustom'd lights,
Like thine shoot forth from out the sapphire throne
Whereon the GREAT ONE sits!—W.

* An epithet of Plato's bestowed upon the Via Lactea.

THE ILLUSTRATED LONDON ALMANACK.

SOVEREIGNS AND POPULATION OF THE PRIN-CIPAL STATES OF EUROPE.

CIFAL STATES OF EUROTE.									
States	Popula- tion.	Sovereigns.	Birth.	Accession.					
Austria .	3545524I	Ferdinand I., Emp.	April 19, 1793	Mrch 2, 1835					
Baden .	1264482	Leopold, Grand Duke	Aug. 29, 1790	Mrch 30,1830					
Bavaria .		Louis, King	Aug. 25, 1786	Oct. 13, 1825					
Belgium .		Leopold I., King	Dec. 16, 1790	July 21, 1831					
Denmark .		Frederick VII., King		Dec. 3, 1839					
France .		Louis Philippe, King	Oct. 6, 1773						
Gt. Britain & ?			24 2010	T 00 100#					
Ireland	25410429	Victoria, Queen	May 24, 1819	June 20, 1837					
Greece	810000	Otho I., King	June 1, 1815	Feb. 6, 1833					
Hanover .		Ernest Augustus, Kg.		June 20, 1837					
Holland .		William II., King	Dec. 6, 1792	Oct. 7, 1840					
Portugal .	3994474	Maria II., Queen	April 4, 1819						
Prussia .	14098195	Frederick W. IV., Kg.		June 7, 1840					
Russia .	51944716	Nicholas I., Emperor	July 6, 1796	Dec. 1, 1825					
Sardinia .	4500000	Charles Albert, King	Aug. 16, 1800						
Saxony .		Fred. Augustus, King		June 6, 1836					
Spain .		Isabella II., Queen	Oct. 10, 1830						
States of the		, ,	· ·						
Church .	2732436	Gregory XVI., Pope	Sep. 18, 1765	Feb. 2, 1831					
Norway and									
Sweden (4156900	Oscar, King							
Switzerland.	9181006	C. F. Tscharner La-							
GHILLCII ALIG.	2101000	damman		1841					
Turkey .	9000000	Abdul Medjid, Sultan	April 20, 1823	July 1 1839					
Tuscany	1436758	Leopold II., Gd. Duke	Oct 3 1797	June 18, 1824					
Two Sicilies.	7919174	Ferdinand II., King	Jan. 12, 1810	Nov. 8, 1830					
Wurtemburg	1699987	William I., King	Sep. 27, 1781	Oct. 30, 1816					
United States	or Americ	a:-Population in 18	0.10.0	resident,					
	John	Tyler, installed April	0, 10±1.						

MONARCHS OF ENGLAND SINCE THE CONQUEST.

	No.	Monarchs.	Began to Reign.	To whom Married.	When Mar- ried.	Reign- ed Years.
mans.	1 2 3	William I. Wiiliam II. Henry I.	1066 1087 1100	Matilda of Flanders. Never Married. Matilda of Sootland.	1053 1100	21 13 35
House of Blois.	4	Stephen.	1135	Matilda of Boulogne.	1134	19
ſ	6	Henry 11. Richard I. John.	1154 1189 1199	Eleanor of Guienne. Berenguella of Navarre. Earl Montague's daughter. Avisa, of Gloucester.	1151 1191 1185 1189	34 10 17
Plantagenet Race.	9	Henry III. Edward I.	1216 1272	Isabella of Angouleme. Eleanor of Provence. Eleanor of Castile. Mary of France.	1200 1236 1253 1299	56 35
Plan	11	Edward II. Edward III. Richard II.	1307 1327 1377	lsabella of France. Philippa of Hainault. Ann of Luxemburg. Isabella of France.	1308 1328 1382 1396	19 50 22
House of Lancaster.	14	Henry IV. Henry V. Henry VI.	1399 1413 1422	Mary Bohun. Joanna of Navarre. Catharine of France. Margaret of Anjou	1317 1403 1420 1444	13 10 38
York. 1	17	Edward IV. Edward V. Richard III.	1461 1483 1483	Elizabeth Woodville. Never married. Ann Nevil.	1465	$\frac{22}{2}$
ſ	19 20	Henry VII Henry VIII.	1485 1509	Elizabeth of York. Catharine of Arragon. A. Boleyn 31, J. Seymour, Ann of Cleves, C Howard,	1486 1509 1536 1540	23 37 —
House of Tudor.	22	Edward VI. Mary I. Elizabeth.	1547 1553 1558	Catharine Parr Died young. Philip, King of Spain. Never married.	1543	6 5 44
Race of Stuart.	25 26 27 28	James I. Charles I. Charles II. James II. William&Mary		Ann of Denmark. Henrietta of France. Catharine of Portugal. A. Hyde, 1660, Mary Mod. Mary, daughter of James II.		22 24 36 4 13
Race of Brunswick	30 31 32 33	George I. George II. George III. George IV. William IV.	1702 1714 1727 1760 1820 1830	George, Prince of Denmark. Sophia of Zell. Wilhelmina of Anspach. Charlotte of Meck. Strelitz. Caroline of Brunswick. Adelaide of Saxe Mein.	1681 1706	12 13 33 60 10 6

PRESENT ROYAL FAMILY OF GREAT BRITAIN.

PRESENT ROYAL FAMILY OF GREAT BRITAIN.
QUEEN VICTORIA (only child of Edward, Duke of Kent, who was born
November 2, 1767, and died January 23, 1820), b. May 24, 1819, suc. June 20,
1837, m. February 10, 1840, Francis Albert Augustus Charles Emanuel,
Duke of Saxe, Prince of Coburg and Gotha, b. August 26, 1819. Issue,
Victoria Adelaide Mary Louisa, Princess Royal, b. November 21, 1840;
Prince of Wales, b. November 9th, 1841; Princess Alice, b. April 25th, 1843;
Duke of York, b. August 6, 1844.
King of Hanover b. June 5, 1771 | Duchess of Cambridge D. Mar. 25, 1797
Duke of Cambridge Feb. 24, 1774 | Crown Pr. of Hanover May 27, 1817
Duchess of Gloucester April 25, 1776 | Pr. Geo. of Cambridge Mar. 26, 1819
Princess Sophia Matilda May 23, 1773 | Princess August of
Press Sophia Matilda May 23, 1773 | Cambridge July 18, 1822
Duchess of Kent Aug. 17, 1786 | Prs. Mary of Cambridge Nov. 27, 1833

May 23, 1773 | Cambridge July 18, 1822 | Aug. 17, 1786 | Prs. Mary of Cambridge Nov. 27, 1833 | Duchess of Kent

HER MAJESTY'S MINISTERS.

OF THE CABINET.

First Lord of the Trea	sury (Premi	er). , Sir Robert Peel.
Lord Chancellor	• • •	Lord Lyndhurst.
Commander-in-Chief		Duke of Wellington.
Chancellor of the Exc	hequer	Right Hon. H. Goulburn,
Lord President of the	Conncil	Lord Wharncliffe.
Lord Privy Seal	••	Duke of Buccleuch.
Secretaries of State.	Home	Rt. Hon. Sir J. R. G. Graham, Bart.
Secretaries of State.	Foreign	Earl of Aberdeen
	Colonial	Lord Stanley.
First Lord of the Adn	airalty	Earl of Haddington.
President of the Boar	d of Control	Earl of Ripon.
President of the Board	of Trade	Right Hon. W. E. Gladstone
Chancellor of the Duch	y of Lancas	ter Lord George Somerset
Paymaster.General	•• •	Right Hon. Sir E. Knatchbull, Bart.
	NOT O	THE CABINET.

Postmaster General	Earl Lonsdale
Secretary at War	Sir T. Fremantle
Woods and Forests	Earl of Lincoln
Master-General of the Ordnance .	Sir G. Murray
Vice-President of the Board of Trad	le W. E. Gladstone
	Hon. Sidney Herbert
	Sir G. Clerk, Bart., J. Young, Esq.
	Hon. W. Baring, J. Emerson Tennent
	Hon. C. M. Sutton
Foreign Under-Secretary	Viscount Canning
	G. W. Hope
	Alexander Pringle, H. B. Baring, Lord A. Lennox, J. M. Gaskell

6	Lords of the Treasury	 Alexander Pringle, H. B. Baring, Lord A. Lennox, J. M. Gaskell
-	,	A. Lennox, J. M. Gaskell Sir G. Cockburn, Vice-Admiral Sir W.
1	Lords of the Admiralty	 Gage, Rear-Adm. Bowles, Hon. Capt.
		Gordon, Hon. H. T. L. Corry
	Storekeeper of the Ordnanco	 F. R. Bonham
-	Clerk of the Ordance	 Capt. Boldero
n-	Surveyor-General of the Ordnance	 .Colonel Jonathan Peel
	Attorney-General,	 Sir W. Follett

ırs.	Solicitor-General		Sir F. Thesiger
_	Judge-Advocate		Dr. Nicholl
	Governor-General of Canada	a.	Sir C. Metcalfe
}	Lord Advocate of Scotland	• •	, Right Hon, D. M'Neill
,			IRELAND
	Lord Lieutenant	• •	Lord Heytesbury
)	Lord High Chanceller		Sir Edward Sugden
	Chief Secretary		Lord Eliot
	Attorney-General		Right Hon. T. B. Smith
	Solioitor-General	• •	Adam Anderson, Esq.

THE QUEEN'S HOUSEHOLD.

	THE GULEN'S HOUSEHUED.
	Lord ChamberlainEarl Delawarr.
ı	Lord Steward Earl of Liverpool.
I	Master of the Horse Earl Jersey
	Master of Buck-hounds Earl Rosslyn.
	Captain of the Yeomen of the Guard Earl Beverly.
	Captain of Gentlemen Pensioners Lord Forester.
	Vice-ChamberlainLord E. Bruce.
	Treasurer of the Household Earl Jermyn.
	Comptroller of the Household Hon, G. L. Dalmer

Lords in Waiting: Earl of Hardwicke, Lord Rivers, Lord Hawarden, Lord Byron, Earl of Warwick, Viscount Sydney, Earl of Morton, Marquis of Ormonde Mistress of Robes : Ds. of Buccleuch.

Ladies of Bedchamber: Countess Dimmore, Countess of Mount Edge-cumbe, Marchioness of Douro, Vis-countess Canning, Lady Portman, Countess of Charlemont.

PRINCE ALBERT'S HOUSEHOLD.

Groom of the Stole Treasurer and Private Secretary	Marquis of Exeter. Geo. Edward Anson, Esq.
Lords of Bedchamber	Lord G. Lennox and Admiral Lord Colville,
Equerries	Lieut-Col. Bonverie, Lieut-Col. Wylde, Major-Gen. Sir Edward Bowater.
Grooms of Bedchamber	Gen. Sir Geo. Anson, Capt. Francis Seymour.
Clerk Marshal	Major-Gen, Sir W. Wemyss
Physicians	Sir James Clark, Dr. Holland, Dr. Forbes
Surgeons	Sir Benjamin Brodie, Bart., Benjamin Travers, Esq., Charles Aston Key, Esq.
Surgeon Dentist	Alex. Nasmyth, Esq.
Chemist and Druggist	Peter Squire, Esq.

STYLE OF ADDRESSING THE SEVERAL ORDERS OF

	NOBILITY BY LETTER.
BLOOD ROYAL	Commencement-Sir
	Superscription-To His Royal Highness the Duke of-
ARCHBISHOP	Commencement—My Lord
1	Superscription-To His Grace the Archbishop of-
DUKE	Commencement-My Lord Duke
	Superscription-To His Grace the Duke of-
MARQUIS	Commencement-My Lord Marquis
1	Superscription-To the Most Hon. the Marquis of-
EARL	Commencement—My Lord
	Superscription-To the *Rt. Hon. the Earl of-
VISCOUNT	Commencement - My Lord
	Superscription-To the *Rt. Hon. Lord Viscount-
Візнор	Commencement-My Lord
	Superscription-To the Rt. Rev. the Lord Bishop of-
BARON	Commencement-My Lord
	Superscription-To the *Rt. Hon. Lord-

The title "Right Honourable" does not strictly belong to Earls, Viscounts, or Barons, unless they be Privy Councillors.



CURLING MATCH.

CURLING MATCH.

Our northern hrethren have a fine athletic game, peculiar to the country, called curling—a word strange to southron ear, at least in connection with a manly sport. Winter is the season for enjoying the exercise, and when the Scottish lakes are frozen over, curling becomes the order of the day. Our engraving will at once explain the character of the game; but although the means are simple—requiring no expensive horses, well-kept hounds, valuable yachts, preserved manors, or other costly adjuncts—yet for sturdy exercise and high excitement, curling is not excelled by any of the more exclusive enjoyments. Whilst the skill and destreity of the player are tested to the utmost, the very progress of the sport tends to increase the sum of that strength and activity which it calls into play; and health and pleasant recreation go hand in hand together in sistely companionship.

Fishing with the artificial fly is the most scientific mode of angling, requiring great tact and practice to make the flies neatly, and to use them with success. The learner cannot do better than go out with an old hand, and initiate his movements. It would extend far beyond the space we can afford in this almanack to enter into detail, but refer the reader to "Blair's Encyclopedia of Rural Sports." Fly-fishing with either the natural or artificial flies does not commence till about the end of April. Bottom fishing may be practised all the year round with varied success. In this month, chuh, pike, and roach, are the only fish that can be taken; the middle of the day is the most seasonable time, provided the water is tolerably clear, and free from ice. Pike may be caught by spinning, and at this season the best bait for chub or roach is bullock's brains, pith, or greaves.

On a day when it may be freezing, the water from the line will cause the large rings to fill with ice; the easiest plan to get rid of this is to put the ring into your mouth, and alterwards keep the line on the move to prevent it from freezing.

When a Jack takes the bait, on no account give him the least check; where When a Jack takes the bait, on he account give him the least eleck; where trees are growing in the water, it is a famous harbour. When fishing where trees are in the water, put the point of the rod under water; as it will allow him generally be go clear, you will feel by his discontinuing to take the line out; when he stops, keep the line tight; and should he wait for a few minutes only, instead of the required time ten minutes, do not let him have more line.

It is generally understood that when two or three persons are augling in the same stream, there shall be a distance of thirty yards between them. If the learner wish to become a complete angler, he must use fine tackle; as the skill and care which such tackle requires will soon make him a master

When the tackle breaks, the angler must not repine at the accident, but do his best to remedy it, by speedily repairing the damage, and resuming his

Avoid sitting on the grass.

Prefer angling at mill-tails, and in deep water, under overhanging banks, and by the entrance of small streams.

Let your line (with the plummet) remain in the water to stretch while you

ground-bait. Choose a mild cloudy day with little wind or fine rain, with the water just coloured.

A number of fine shot is to be preferred to a few large ones.

The Thames, at Richmond, Hampton, Twickenham, Shepperton; the Mole; the Brent; the New River; the Ravensbourne, at Lewisham; Dagenham Breach; Pond on Hampstead-heath; Pond on Clapham-common; Pond in Horusey-wood; Pond at Wanstead; Regent's canal; Croydon canal; and Camberwell canal.

January presents many amusements to sportsmen. Stag and fox-hunting are in the ascendant; and coursing, if not frosty, is in full spirit; while partridges, woodcocks, snipe, and pheasants, are all fair game for those who can handle a fowling-piece. If the weather be "fair and frosty," the lover of out-door exercises may indulge in the healthful and exhibitariting amusement of skating

IN-DOOR AMUSEMENTS.

January is one of the most festive months of the year. Its calendarial festivities are new Year's Day and Twelfth Day.

Although the custom of presenting New Year's gifts is now but little observed in this country, the day is observed by many a mirthful party.

There is not a more rational mode of amusing a party than by optical exhibitions, such as the Magic Lauthorn, Phantasmagoria, &c. The following is, however, a more novel amusement:—

The Thaumatrope, or Wonder-Turner, is an exceedingly amusing toy, of very simple construction and pleasing effect. It is made in the following manner:—Cut out a piece of card-board of circular form, and fix to it six pieces of string, three on each side. Paint on one side of the card a bird, and on the other a cage; being careful to draw them upside down to each other, otherwise the desired effect will not be produced. When showing the toy, tske hold of the centre strings between the forefinger and thumb of each hand, close to the card, and twist or twirl the card rapidly round; when lo! the bird will appear snugly enseconsed in its eage. The principle on which this pleasing toy acts, is, that the image of any object received on the retina or optic nerve, which is at the back of the eye, is retained in the mind for about eight seconds after the object causing the impression is withdrawn; cousequently, the impression of the painting on one side of the card, is not obliterated ere the painting on the other side is brought before the eye; it therefore follows that both sides are seen at once. The subjects suited to the Thaumatrope are very varied: amongst others, the following are well calculated for display: a juggler throwing up two balls may be drawn ou one side of a card, and two balls only on the other, and according to the pairs of strings employed, he will seem to toss two, three, or four balls; the body and legs of a uman on one side, and his head and arms on the other; a candle and its flame; a mouse and a trap, and a horse and his rider; this last

gularly.

Twelfth Night, though comparatively but little observed, occasions the assembling of many cheerful circles. Drawing for King and Queen may be amusing enough; but we have seen an ingenious attempt to turn the custom to better account by substituting for the usual grotesque Twelfth Night representations, portraits of the leading characters of Shakspeure's plays, each having beneath it a quotation from the "part." This is a graceful combination of amusement and high intellect.

FOREIGN AMBASSADORS AND CONSULS IN ENGLAND.

AMERICA, UNITED STATES OF.

Consulate Office, 1, Bishopsgate Churchyard.

Envoy Extraordinary and Minister Plenipotentiary, His Excelleucy Edward Everett, Esq.,

Grosvenor-place, Pimlioo.

Consul, Colonel Thomas Aspinwall, 1, Bishopsgate Churchyard.

Agent for the Legation, Mr. J. Miller, 26, Henrietta-street, Covent-garden.

Ambassador Extraordinary and Plenipotentiary,
His Highness Prince Paul Esterhazy, K.G.,
F.G., C.H., 7, Chandos-street, Cavendish-square.
Consul General, Lionel N. de Rothschild, Newcourt, St. Swithin's-lane.

BRAZILS.

Minister, Commandeur Josi Marques Lisboa.
Vice Consul in London, Antonio da Costa, 148,
Fenchurch-street.

Consulate Office, 11, Bury-court, St. Mary Axe.
Enroy Extraordinary and Minister Plenipotentiary, Baron de Cetto, 3, Hill-street, Berkeley-Consul General, Adolphus Frederick Schaezler,

Esq. BADEN Consulate, 1, Riches-court, Lime-street. Consul, John Simson.

BELGIUM. Consulate Office, 3, Copthall-court, Throgmorton-

street.

Envoy Extraordinary and Minister Plenipotentiary, M. Sylvain Van de Weyer, K.C.H., 50, Portland-place.

Consul, H. Castellain.

BUENOS AYRES.

Consular Office, 1, Winchester-buildings, Old Broad-street.

Minister Plenipolentiary, Don Manuel Moreno,
Sablonniere Hotel, Leicester-square.

Consul General, G. F. Dicksou, 20, Hanover-ter
race, Regent's Park.

DENMARK.

Chargé d'Affaires, Count II. de Bille Brahe, 43,
Cadogan-place, Sloane-street.

Consul General, Fletcher Wilson, 6, Warnfordcourt, Throgmorton-street.

Consular Office, 3, Copthall-buildings, Throgmorton-street.

Ambassador Extraordinary and Minister Plenipotentiary, His Excellency Count St. Aulaire.

Consul-General, Durant St. André, 44, Montague-

FRANKFORT-ON-THE-MAINE.

Consulate Office, 12, Broad-street-buildings.

Consul, John George Behrends.

GREECE.

Consulate Office, 25, Finsbury-circus.

Envoy Extraordinary and Minister Plenipolentiary, A. Mavrocordato, 4, Hyde-park-place Consul General, Pandia Ralli, 25, Finsbury-oircus.

Consulate Office, 6, Cirous, Minories.
Minister, Count Kielmannsegge, 44, Grosvenor-

place.

Consul General, Sir J. Hall, K C.H., St. Katharine's Dock-house.

MEXICO.

Consulate Office, 26, Austin Friars, Broad-street.

Minister and Envoy Extraordinary, T. Murphy,
7, Sussex-place, Regent's park.

Envoy Extraordinary and Minister Plenipolentiary, M. Dedel, 25, Wilton-orescent.
Consul General, J. W. May, 123, Fenchurch-

NEW GRENADA. Consulate Office, 46, Lime-street, Leadenhall-Chargé d'Affaires, M. M. Mosquera, 1, Dorsetplace, Dorset-square. Consul General, W. Logan.

Consulate Office, 48, Fenchurch-street.
Consul General, H. F. Tiarks.

Minister, Khan Hussim. Letters to be addressed, care of Mr. Harbottle, 157, Fenchurch-street.

PORTUGAL.
Consular Office, 15, St. Mary Axe.
Euroy Extraordinary, Baron da Torre, de Moncorvo, 57, Upper Seymour-street.
Consul General, F. I. van Zeller, 40, Dorset-square.

Consulate Office, 106, Fenchurch street.
Envoy Extraordinary and Minister Plenipolentiary, Chevalier Bunsen.
Consul General for Great Britain and Ircland, Chevalier, B. Hebeler, K.R.E., 15, York-place, Baker-street.

Consulate Office, 2, Winchester-buildings, Old

Consulate Office, 2, Wholeson Broad-street.

Ambassador Extraordinary and Plenipotentiary,
Baron de Brunow, Ashburnham-house, Doverstreet, Piocadilly.

Consul General, H. E. the Chevalier George de

Consulate Office, 31, Old Jewry.
Minister, H. E. the Count de Pollon, 11, Lower
Grosvenor-street.
Consul General, J. B. Heath, 66, Russell-square.

Consulate Office, 76, Coruhill
Resident Minister, Baron de Gersdorff, 130, Piccadilly.
Consul General, James Colquhoun, 12, St. James's

SICILY.
Consulate Office, 15, Cambridge-street, Connaught-

square.
Ambassador Extraordinary, Prince de Castelci-cala, Clarendon Hotel, Boud-street.
Consul General, Henry Swenburne Minasi.

Envoy Extraordinary and Minister Plenspoten-tiary, General Sancho, 31, Upper Harley-street.

Consulate, 37, Old Broad-street. Consul General, Chevalier Don Jose Maria Bar-

Consulate Office, 2, Crosby square.

Envoy Extraordinary and Minister Plenipotentiary, Count de Bjornsterna, 65, Mount-street.

Consul General, Charles Tottie, Esq., 52, Montague-square.

SWITZERLAND.

Consul Office, a, 21, Cateaton street, Lothbury.

Agent and Consul General, J. L. Prevost.

TURKEY.

Ambassador Extraordinary, His Excellency All Effendi. Consulate Office, 28, Great Winchester-street, City. Consul General, Edward Zohrab, Esq., 1, Bryanstone-square.

Consulate Office, 15, Augel-court, Throgmorton

Consul, James Christian Clement Bell.

WURTEMPURGH.
Consul General, Bernard Hebeter.

THE GOVERNORS AND DIRECTORS OF THE BANK OF ENGLAND.

WILLIAM COTTON, Esq., Governor.

JOHN BENJ. HBATH, Esq., Deputy Governor, Re-elected April 13, 1844.

DIRECTORS ELECTED APRIL 14, 1844.

Chapman, Edward Henry, Esq. Campbell, Arthur Edward, Esq. Dobrec, Bonamy, Esq. Gower, Abel Lewes, Esq. Hankey, Thomson, jun., Esq. Hanson, John Oliver, Esq.

Hodgson, Kirkman Daniel, Esq. Holland, II mry Lancelot, Esq. Hunt, Thomas Newman, Esq. Huth, Charles Frederick, Esq. Latham, Alfryd, Esq. Mildmay, Hu.pphrey St. John, Esq.

Morris, James, Esq. Neave, Sheffield, Esq. Norman, George Warde, Esq. Palmer, John Horsley, Esq. Pattison, James, Esq. Pelly, Sir John Henry, Bart.

Pearse, Christopher, Esq. Prescott, Henry James, Esq. Reid, Sir John Rac, Bart. Robinson, William R., Esq. Thompson, William, Esq. & Ald Tooke, Thomas, juu., Esq.

Secretary, John Knight; Dep. Sec., John Watts; Assistant, John Bentley; Chief Accountant, William Sinee; Deputy, George Barlo Gray; Assistant, J. P. Noble; Chief Cashier, Matthew Marshall; First Assistant, J. R. Elsey; Second Assistant, Thomas Bros.

THE BANK OF ENGLAND HAS BRANCH ESTABLISHMENTS IN THE FOLLOWING TOWNS, Birmingham—Bristol—Gloucester—Hull—Leeds—Liverpool—Manchester—Newoastle-upon-Tyue—Norwich—Plymouth—Portemouth—Swansca.

\$J

Ames, Prescott, Grote, & Co., 62, Threadneedle-st. Bank of England, Threadneedle-st. Barclay, Bevan, and Tritton, 54, Lombard-st. Barnard, Dimsdale, Barnard & Co., 59, Cornhill. Barnett, Hoare, & Co., 62, Lombard-st. Bosanquet, Anderton, Franks, & Co., 73, Lombard-st.

Barnett, Hoare, & Co., 62, Lombard-st.
Bosanquet, Anderton, Franks, & Co., 73, Lombard-st.
Bouverie, Norman, & Murdoch, 11 Haymarket.
Brown, Janson, & Co., 92, Abchurch-lane.
Call, SirW. P., Marten, & Co., 25, 0ld Bond-st.
Child & Co., 1, Fleetst, Temple Bar.
Cocks, Biddulph, & Co., 43, Chiaring-cross.
Cockburn & Co., 4, Whitehall.
Champion & Co., 11, West Smithfield.
Coutts & Co., 59, Strand.
Cunlifes, Brooks, & Co., 29, Lombard-st.
Curries & Co., 29, Cornhill.
De Lisle Janvrin & Co., 16, Devonshire-square,
Bishopsgate.
Denison, J., Heywood, & Co., Lombard-st.
Dixons, Brooks, & Dixon, 25, Chancery-lane.
Drewett & Fowler, 4, Princes-st., Bank.
Drummonds & Co., 49, Charing-cross.
Feltham, John, & Co., 42, Lombard-st.
Fullers and Co., 65, Moorgate-st.
Glyn, Sir R. Garr, Bt., & Co., 67, Lombard-st.

LONDON BANKERS.

Goslings & Sharpe, 19, Fleet-st,
Hanhurys, Taylor, & Lloyd, 60, Lombard-st.
Hanhurys, Taylor, & Lloyd, 60, Lombard-st.
Herries, Farquhar, & Co., 16, St. James's-st.
Hill & Sons, 17, West Smithfield.
Hoares, 37, Fleet-st.
Hopkiuson, Barton, & Co., 3, Regent-st., Waterloo-place.
Jones, Loyd, & Co., 43, Lothbury.
Jones & Son, 41, West Smithfield.
Kinloch, G. F., & Sons, 1, New Broad-st.
Lubbock, Sir J. W., & Co., 11, Mansion-house-st.
Masterman, Peters, & Co., 35, Nicholas-lane.
Pracd, Fane, Praed, & Jolinson, 189, Fleet-st.
Price, Sir C., Bt., & Co., King William-st.
Pocklington & Lacy, 60, West Smithfield.
Puget, Bainbridge, & Co., 12, St. Paul's.
Ransom & Co., Pall-mall East.
Robarts, Curtis, & Co., 15, Lombard-st.
Rogers, Olding, & Co., 29, Clements-lane.
Scott, Sir C., Bt., & Co., I (St. Paul's.
Strachan, Pauls, & Bates, 217, Strand.
Spooner, Attwood, & Co., 27, Gracechurcn-st.
Stevenson, Salt, & Sons, 20, Lombard-st.

Stride & Sons, 6, Copthall-court.
Twiuings, Rich., G., J. A., & Nich., 215, Strand Vere, Sapte, Banbury, & Co., 77, Lombard-st, Weston & Young, Wellington-st, Borough. Williams, Deacon, & Co., 20, Birchin-lane. Willis, Percival, & Co., 76, Lombard-st. Ircland, Provincial Bank of, 42, Old Broad-st, Ircland, National Bank of, 13, Old Broad-st. London Joint Stock Bank, Princes-st, Bank, and 69, Pall-Mall.
London and Westminster, Lothbury, 9, Waterloo-phace.

London and Westminster, Lothbury,

9. Waterloo-phace,
213, High Holborn,
3, Wellington-st., Borough,
87, High-st., Whitechapel,
Stratford-place
Natioual Provincial Bank of England, 112, Bishopsgate-st., Within.
London & County Banking Company, 71, Lombard, 8t.

London & County Banking Company, 17, Lombard-st.
Commercial Bank of London, 3, Moorgate-st., and 5, & 6, Henrietta-st., Covent-gardeu.
Uniou Bank of London, 8, Moorgate-st.,
Argyll place, Regent-st.,
and Pall Mall, East.



FEBRUARY.

HARE-HUNTING.

This sport is now seldom seen in its primitive shape; time and manners

This sport is now seldom seen in its primitive shape; time and manners have not failed to act upon hare-hunting as they are wont to do upon all things; indeed, the latest changes, by introducing the dwarf fox-hound, have quickened the sport and taken from it, as a subject of illustration, its main characteristic, by banishing the "blue-mottled harrier." This "newest fashion" we csobew, and give hare-hunting as it should be given—such as it was when Somerville sung, and such as it yet is in some sylvan corners of Old England—a whit alower perhaps, but not less hearty, healthful.

memory deserves the compliment we pay it, hy the publication of his portrait. He entered the army early in life, holding a commission in the Duke of York's regiment when little more than sixteen years of age. In the course of the war with Republican France he was frequently engaged in active service; and in the memorable campaign in Egypt, which terminated with the victory of Alexandria, Colonel Jollife commanded a battalion of the Coldstream Guards on the decisive day, the 21st of March. On his marriage with the heiress of the Earl of Ferrers, he quitted the profession of marriage with the heiress of the Earl of Ferrers, he quitted the profession of a soldier, and directed bis attention chiefly to those pursuits which constitute the avocations of a country gentleman. His hours of amusement were devoted to the sports of the field, in which he attained such celebrity as to have acquired the designation of "the hero of the chace." Descended from a family of very high antiquity, some of his estates in the north of England have been continued in uninterrupted succession, in one branch of his family, succession, in one branch of his family, for more than a thousand years. A claim to revive a cherished hereditary title, long in abeyance, was at one period favourably entertained by the ministers of the day; but as it was considered invidious or injudicious to the ministers of the day; but as it was considered invidious or injudicious to restore so ancient a barony, George III. expressed his sentiments as preferably disposed to a new creation; but this not being in accordance with the views of the father of the deceased gentleman, the idea was never realised. When pressed by the late Earl of Liverpool to accepe a baronetcy, the suggestion appeared to Mr. Jolliffe to convey something so much like an insult, that he is reported to bave made the following sarcastio reply to the minister: "Your proposal, my lord, if acceded to, would only enable me to do hy patent what I already practise as a gentleman—namely, walk out of a room after the very numerous tribe who have recently been elected as fit subjects for such a dignity!"



PORTRAIT OF HYLTON JOLLIFFE, ESQ.

Toward the latter end of this month, when the weather becomes somewhat mild, carp, gudgeons, and minnows may be taken, as well as pike, chub, and roach. The perch spawns either in this or the next month. The same as last month will answer.

During the progress of this month, sports with the gun begin to decline. The whole tribe of wild fowl fly the approach of spring, and seek a colder climate more congenial to their habits. The partridge and pheasant season is over.

LORDS LIEUTENANT, &c., OF THE SEVERAL COUN-TIES IN GREAT BRITAIN AND IRELAND.

ENGLAND. Bedford, Earl De Grey Berks, Earl of Abingdon Bucks, Lord Carrington Cambridge, Earl of Hardwicke Chester, Earl of Stamford and War-Cornwall, Sir W. Trelawney
Lord Warden, Il R. H.

Prince Hort
Cumberland, Earl of Lonsdale
Derby, Duke of Devonshire
Devon, Earl Fortescue
Dorset, Rarl Digby
Durham, Marquis of Londonderry
Essex, Viscount Maynard
Gloucester, Earl Fitzhardinge
Hereford, Lord Batennan
Hertford, Earl of Verulam
Huntingdon, Earl of Sandwich
Kent, Earl Thanet
Lancashire, Earl of Ruthand
Lincoln, Earl Brownlow
Middlesex, Marquis of Salisbury
Monmouth, C. H. Leigh, Esq.
Norfolk, Lord Wodelhouse
Northampton, Marquis of Exeter
Northumberland, Duke of Northumberland Prince Albert

Nottingham, Earl of Scarborough Oxford, Duke of Marlhorough Rutland, Marquis of Exeter Shropshire, Dukc of Sutherland Stafford, Earl Talbot Stafford, Earl Talbot
Suffolk, Diske of Grafton
Surrey, Earl of Lovelace
Sussox, Duke of Richmond
Tower-Hamlets, Duke of Wellington
Warwick, Earl Brooke & of Warwick
Westmoreland, Earl of Lonsdale
Wilts, Marquis of Lunsdowne
Worester, Lord Lyttellon
York, East Riling, Lord Wennehift
—-Wort Riding, Earl of Zetland
WALES.
Anglesey, Marquis of Anglesey,

WALES,
Anglesey, Marquis o' Anglesey
Brecon, H. Williams, Esq.
Cardigan, W. E. Powell, Esq., M.P.
Carmarthen, Loid Dynevor
Carmarten, Loid Dynevor
Carnartyon, Ld. Willoughby d' Eresby
Denbigh, Middleton Biddulph Esq.
Fliut, Marquis of Westminster
Glamorgan, Marquis of Bute
Merioneth, E. L. Mostyn, Esq.
Montgomery, Earl of Powis
Pembroke, Sir J. Owen Bart, M.P.
Radnor, Lord Rodney
SCOTLAND.
Aberdeen, Earl of Erroll

Aberdeen, Earl of Erroll Argyll, Marquis of Ercadalbane Ayr, Earl of Eglintoun

TREASURY.

Banff, Earl of Fife Berwick, Earl of Lauderdale Bute, Marquis of Bute Caithness, Earl of Caithness Clackmannan, Hon. G. R. Abereromby Cromarty, R. Macleod, Esq. Cromarty, P. Macleod, Esq.
Dumbarton, Sir J. Colquboun, Bart,
Dumbres, Marquis of Queensberry
Edinhargh, Duke of Buccleuch
Elgin, Earl of Moray
Fife, Capt, J. Erskine Wemysa, R.N.
Forfar, Earl of Airlie
Haddington, Marquis of Tweeddale
Inverness, Earl of Seafield
Kincardine, Viscount Arbuthnott
Kinross, Vice-Admiral Sir C. Adam
Kircudbright, Earl of Galloway
Lanark, Dulke of Hamilton
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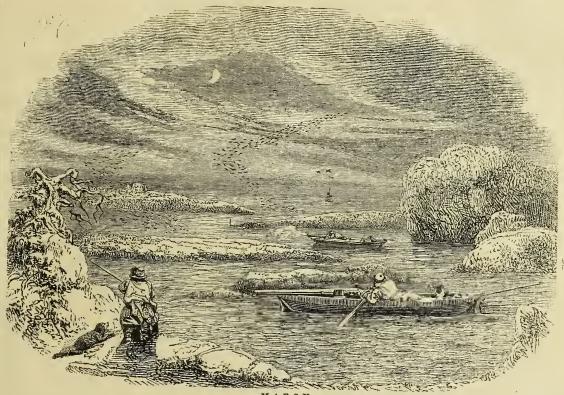
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MARCH.

WILD DUCK SHOOTING.

WILD DUCK SHOOTING.

THE different methods of taking the wild duck afford capital sport and never-ending adventure. "Common wild flow shooting with a shoulder duck gun," observes Captain Lacy in the "Modern Shooter," "bas long been in vogue, and has often been the theme of ancient sporting authors; but, until Colonel Hawker's work appeared, wild fowl shooting on salt-water had scarcely been touched upon; still less had any one of 'gentle blood' ventured to commit his valuable case to 'the vasty deep, in case so fragile as that yelept a shooting punt. The merit, therefore, of having invented this new pleasure, or, at least, of having added it to the stock of sporting recreations, attaches exclusively to the gallant colonel. As a practical performer, he is most successful, and is, perhaps, the very best wild fowl shot round the British coast. Hail, Hawker! Mao Adam of duck shooters, hail!" The colonel's well-known book contains the modes of hut ahooting, &c., and some particulars relating to decoys.

colonel's well-known book contains the modes of hut shooting, &c., and some particular relating to decoys.

The usual weight of the mallard or drake is about 2½ lbs., and that of the duck somewhat less; but the foreigners are generally larger than the homebreds. Captain Lacy has shot wild ducks in the Tess Bay above six pounds and a half the pair; but, if much beyond this weight, their purity of breed may he suspected. Wild ducks, excepting a few homebreds, whose full-grown ones are fine eating in August, do not appear in the Tecs Day until November, or, at all events, in any number worth mentioning. The mallards are very poor in condition after the middle of February, not so the ducks. The captain adds: "a common trick played upon the London cockneys is to serve them out with a couple of shell ducks in lieu of wild ducks. The heads and white legs of the former having been cut off, and the birds plucked, as they are just about the size of the latter, and always look plump, they sell better, and it is thus that wild ducks are libelled for eating so 'fishy!"

"It tame ducks were wanting.

"If tame-ducks were wanting,
And wild-ducks were flown,
Oh! who would inhabit
This bleak world alone!"

Oh! who would inhabit
This bleak world alone!"

Colonel Hawker says: "It often happens that wild-ducks, dumbirds, and other fowl, come down at night to large rivers, ponds, or lakes, which are so deceply surrounded by floating reeds, that uo one can approach the water; and the birds, aware of this, do not lower their flight till they come near them. So far from this defying the shooter, it is one of the finest opportunities that can be afforded for death and destruction. Let him sit, in a small punt, or canoe, fore and aft, among the rushes, where, towards dusk, he will be so completely bid, that he may either shoot at birds flying within pistol-shot, or wait for a good chance on the water; from whence, his boat heing hid on each side, and foreshortened to the only point of view) he will he pretty sure to escape the observation of the hirds. This plan may be resorted to where there are no rushes, such as under the bank of an islaud, or in a small brook, near which there may be no hiding-place."

The fens of Lincolnsbire, Cambridge, and Martin Mere in Lincolnshire, are excellent localities for duck as well as every other wild fowl shooting. This species of shooting, both of duck and flapper, can likewise be pursued in perfection on the borders of many of the rivers of North and South Wales.

The nest of the wild duck is generally made in some dry spot of the marshes, and not far from water, to which she can lead her progeny as soon as batched. It is composed of withered grass and other dry vegetable mattor, and usually concealed from view by a thick bush, or some very rank herbage, though other and very dissimilar situations are occasionally chosen, as several instances have been recorded where they have deposited their eggs on the fork of a large tree, or in some deserted uest.

The Yankees have woth they call their "ducking," i. e. when they form a party to go shoot ducks on Duck Island, in Chesapeake Bay. These are the

celebrated canvass-back duck of the American gourmand, and the estimation in which they are held may be gathered from the fact that, in Bultimore market, the price of a single duck is one shilling, whilst the common wild ducks are but threepence a couple. The former has been acclimated in Britain, and why the breed has not been more extensively encouraged is somewhat surprising, as they are sizeable and handsome birds, and, as a table luxury, most delicious.

ANGLING.

In March, minnows, roach, chub, gudgeons, tench, carp, and trout, form the bill of fare. Bleak, pike, perch, and dace, spawn. In this and the preceding month, the middle of the day is the best for angling. The blue dun cow-dung flies make their appearance, and may be used throughout the year. The March brown fly appears about the same time, but is out of season at the end of April; it is a capital bait, and it kills most from eleven till three.

YACHTING.

THOUGH early in the season, yachting commences on the Thames during this month. The Thames Yacht Club rendezvous at Greenwich. The first law of the Club states its object to be "the encouragement of yacht building sailing on the river Thames." The funds of the Club, after paying necessary current expenses, are appropriated to the purchase of cups and other prizes, to be sailed for by yachts belonging to members only. Another law of the Club throws open one of the matches, to be called "the Grand Match," to all yachts eligible to sail, winners of the same season not excluded.

STEEPLE-CHAS ING.

STEEPLE-CHASING. STEEPLE-CHASING or RACING, is one of the sports of this month, when the St. Albans steeple-chase takes place. The ancient borough of St. Albans, at present, appears to be to steeple-chasing what Newmarket is to legitimate turf practices; how long it may retain its metropolitan importance, over this connecting link between turf and field riding, it is not easy to predict, so much do caprice and fashion influence these matters. The benefit which this town receives from these sporting meetings, has stimulated its inhabitants to exert themselves to the utmost to provide the very best accommodation for both actors and spectators; while the liberality of the landowners cannot be too highly praised for throwing no impediment in the way. Tous, St. Albans offers its fields to bespatter the archentriders, and its brooks to wash off the accumulated stains. Its hedges have waved under the jumpers, and its ancient town has opened its hotels to greet the conquerer and console the vaniquished. Steeple-chases are also held this month at Banbury, Northampton, Burton Constable, York, Burton-upon-Trent, Bedford, Leamington, Boston, &c., &c.

&c., &c.

English steeple-chasing appears to be rapidly gaining ground, and, in the absence of hunting, it offers one of the very best means of keeping up the wind and condition of our field-horses, and the emulative spirit of field-men. Our method of conducting a steeple-chase is not fettered with so many rules and enactments as those of Ireland; nor is it marked with much other ceremony than that of previously agreeing ou the stakes, marking out the ground by means of flags on eminences, within certain distances, to the right or left of which the riders are confined in their course; neither must one horse follow the track of another, nor leap the same fence within so many yads of any other rider; nor is he allowed to take his course on any lane or road, beyond a certain distance. The horses are started by a preconcerted signal, such as a hugle sound, the firing of a pistol, &c. &o.

ARCHERY MEETINGS usually commence in this month.—FOOT-BALL play is still kept up on Shrovo Tuesday, in some towns, as at Derby, and Kingstouupoa-Thames.

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Aecountant General's Office, Chancery-lane, 9 to 2, and 4 to 7; and for delivery of Drafts, 11 to 2
Adjutant-General's Office, Horse

Adjunity Court, College square, Doctors' Commons, 9 to 7 Admiralty Register Office, Paul's Bakehouse-court, Godiunan-street,

10 to 3 and 4 Admiralty Naval Department, White-hall, 10 to 5 Admiralty Civil Department, Somer-

Admiraty CVIII Department, Somer-set House, 10 to 4 Affidavit Office, 10, Symond's Inn, 10 to 4; in long vacation, 11 to 1 Annuity (Government) Office, 19, Old Jewry, 10 to 3 Apottlecaries' Hall, Water-lane, Black-friars, 9 to 8; Solicitor's Office, 1

to 3

Mars, v. to 3; Solicitor's Onice, v. to 3
Arches Registry, 20, Great Knight Rider-street, 10 to 4
Army Medical Board Office, 13, St. James's Place, 11 to 4
Army Pay Office, now called Paymister General's Office by Act of Parliament, Whitehall, 10 to 4
Bankrapts' Office, 2, Quality-court, Chancery-lane, 10 to 2, and 6 to 8.
Bankrapts' Court, 82, Bassinghall-street, 10 to 4
Board of Control for East India Affairs, Caucon-row, Westminster, 10 to 4
Board of General Officers, 6, Whitehall Yard, 10 to 4

Board of General Officers, 0, White-hall Yard, 10 to 4 Board of Green Cloth, St. James's Palace, 11 to 4 Board of Trade, Whitehul, 10 to 4 Board of Works, consolidated with Commissioners of Woods and Fo-

rests and Land Revenue by Act of Parliament, 1 and 2, Whitehall-place, 10 to 4 Borough Court of Southwark, 8t, Margaret's-hill, Monday, 3 to 4 Children's Employment Commission, 5, 12 to
Children's Employment Commission, 5, Trafalgar-square, 9 to 5 Church Commission, &c., and Commissioners of Charities, 13, Great George-street, Westminster City Police Commissioners' Office, 26,

Old Jewry, 9 to 5 City Solicitor's Office, Guildhall, 10 to 7

Commander-in-Chief's Office, Horse

Commissioners for Promoting the Fine Arts, Gwydyr House, White-hall, 10 to 4 Commissioners of Police, 4, White-

Commissioners of Pohoe, 4, White-hall-place, 10 to 4
Council Office, Whitehall, 10 to 4
Custom-House, Lower Thames street.
In-door Offices 10 to 4; Waterside
Offices, from 1st March to 31st Oct.
8 to 4; from 1st Nov. to 28th Feb. 9 to 4

Dean and Chapter of Westminster's Dean and Chapter of Westminster's Office, 10, Benet's hill, 9½ to 5 Doctors' Commons, south side of St. Paul's Churchyard Duchy of Cornwall Office, Somerset House, 10 to 4 Duchy of Laneaster Office, Laneasterplace, Waterloo-bridge, 10 to 4 Fost Links House, Leadenbull treat

E st India House, Leadenhall-street,

10 to 4 Ecclesiastical Commissioners' Office, 5, Whitehall Place, 10 to 4

5, Whitehall Place, 10 to 4
Emigration (Government) Office, London Docks, 10 to 4
Exchequer Bill Loan Office, S. Sea
House, 10 to 4
Excise Office, Broad-street, 9 to 3

Exeise Export Office, 49, Great Tower-street, 9 to 3

Faculty Office, 10, Knight Rider-st., 9 to 4

Fen Office, 6, Sergeant's Inn, 10 to 2, Mondays, Wednesdays, and Fri-

First Fruits' Office, Dcan's Yard, Westminster, consolidated with Queen Anne's Bounty Office, 10

to 4
Foreign Marriage, Baptism, and Burial Office, Bishop of London's Office, 3, Godliman-street, 10 to 5
French Passport Office, 6, Poland st.;
Passports applied for, 11 to 5;
granted next day, 1 to 3
Gazette Office, Cannon-row, 10 to 5
Gazette Advert. Office, 42, Chancerylane

General Register Office of Births,

Deaths, and Marriages, 7 and 8, Somerset place, 10 to 4 Greenwich Out-Pension Office, Tower-hill, 10 to 4

hill, 10 to 4
Hackney Carriage Office, 3, Primesstreet, Storey's Gate, 10 to 4
Half-pay Office, See Army Pay Office
Harbour Master's Office, St. Katharine's Stairs, 9 to 4
Heralds' College Office, St. Benet's
hill, Doctors' Commons, 10 to 4
Insolvent Debtors' Court, Portugal.
street, 10 to 4
Invalid Office, 4, Northumberlandstreet, Strand, 10 to 4
Irish Deeds Registry and Affidavit
Office, 10, Southampton Buildings,
10 to 4
Irish Office, 18, Great Queen-street,

10 to 4

Irish Office, 18, Great Queen-street,
Westminster, 11 to 5

Judges' Chambers, Rolls' gardens,
Chancery-lane, 11 to 5 in term, and
11 to 3 in vacation, except from
Aug. 10 to Oct. 24, when 11 to 2

only. aud Tax Register Office, Somerset

House, 10 to 4
Legacy Duty Office, Somerset House, 10 to 4

10 to 4 Lord Chamberlain's Office, Stable-yard, St. James's, 11 to 4 Lord Mayor's Court Office, 7, Old Jewry, 10 to 4 Lunacy, Offices of Metropolitan Com-

missioners in Abingdon-street, 10

Lunatic Office, Quality-court, Chancery-lane, 10 to 4
Lunatic Visitors' Office, 45, Lincoln's-

Luuatte Visitors Office, 42, Lincoin s-inn-fields, 10 to 5 Marshalsea and Palaee Courts, Great Scotland Yard; Office, 15, Chan-ery-lane, ½ past 9 to 2, and 4 to 7; on Court days, ½ past 9 to 1, and 3 to 6

to 0
Masters in Chancery Office, 25,
Southampton Buildings, 10 to 4; in
vacation, 10 to 2; in long vacation,

Metropolitan Roads, North of the Thames, 22, Whitehall-place, 10

to 5
Metropolitan Police Office, Scotland
Yard, 10 to 4
Ordnance Office, 86, Pall Mall, 10 to
6, and Tower, 10 to 4
Palace Court Office, 15, Chancerylane, ½ past 9 to ? and 4 to 7. On
Court days, ½ past 9 to 1, and 3 to 6
Patent Office, 13, Serie-street, Lincoln's inn, 10 to 4
Pay Office of the Army, Pay Office of
the Navy—consolidated. See Δrmy
Pay Office

Pay Office

Pay Office
Plantation Office, Whitehall, 11 to 3
Police Offices, 10 to 5
Poor Law Commission, Somerset
House, 10 to 5
Post Office, St. Martin's le-Grand
Prerogative Court, College-square,
Doetor's Commons, 10 to 4
Prerogative Will Office, 6, Great
Kniglst. Rider-street, 10 to 4, and
10 to 3 in winter
Presentation Office, 4, Old Square, Presentation Office, 4, Old Square, Lincoln's-inn, 10 to 5

Prevention of Cruelty Society, 2, Panton-street, Haymarket, 10 to 4
Public Record Office—Head Office, Rolls' House, Chancery-lane. Branch Offices, Rolls' Chapel, Tower, Chapter House, Poet's Corner, and Carlton Ride, 10 to 4

ter House, Poet's Corner, and Carlton Ride, 10 to 4
Public Office in Chancery, Southampton buildings, 10 to 4
Queen Anne's Bounty Office, Dean's Yard, Westminster; Treasurer's Department, 10 to 2: Secretary's and First Fruits and Tenths Department, 10 to 4
Register Office of Deeds in Middlesex, Bell Yard, Temple Bar, open daily from 10 to 3. Registrar attends 11 to 2 only
Registrar General's Office, 7 and 8, Somerset-place, 10 to 4
Registrar of Metropolitan Buildings, 3, Trafidgar-sq., Charing Cross
Royal Marine Office, 22, New-street, Spring Gardens, 10 to 5
Sohool of Design, Somerset House South Australian Colonization Commissioners 9, Park-street, Westm., 11 to half-past 5

Wood Thomas F

Sons of the Clergy, 2, Bloomsbury-place, Bloomsbury-square
Stamp Office, Somerset House, 10 to 4. No money received after 3
State Paper Office, 12, Duke-street, Westimister, 11 to 4
Stock Exchange, Capel-court, Bank
Tax Office, Somerset House, 10 to 4
Tenths Office, onsolidated with
Queen Anne's Bounty Office, 10 to 2

Tithe Commissioners Office, 9, Somersct-place, Somersct llouse, 9 to 6 Transport Office, Somerset House, 10 to 4

Treasury Office, Whitehall, 10 to 4 Vicars General and Peculiars' Office, Bell Yard, Doctors' Commous, 9

Victualling Office, Somerset House,

War Office, Horse Guards, 10 to 4 Woods, Forests, and Land Revenues, Public Works and Buildings Office, Whitchall place, 10 to 4

CITY OFFICERS.

LORD MAYOR,

Elected 9th September — Sworn in 9th November,
The Right Hon. Michael Gibbs, Alderman of the Ward of Walbrook, 1838
SHERIFFS,
Elected 2th June—Sworn in 28th September,
Alderman W. Hunter, and Thomas Sidney.
UNDER.SHERIFFS.
George Marten, Esq., William H. Ashurst, Esq.
ALDERMEN

ALDERMEN.
The following have not passed the Chair.

Wood, Inomas, Esq.—Corawamer			-	•	÷	1000
Johnson, John, Esq Dowgate .						1839
Carroll, Sir George, Kt Candlewick				:		1840
Hooper, John K., EsqQuechlithe						1840
Duke, Sir James, Kt., M.P Parringdon	n Witho	ut				1840
Farncomb, Thomas, Esq Bassishaw						1840
Musgrove, John, EsqBroad-street						1842
Hunter, William, EsqColeman-street						1843
H. H. Hughes, Esq Bread-street						1844
Challis, Thomas, Esq Cripplegate	,					1844
Sidney, Thomas, Esq Billingsgate						1844
Moon, F. G. EsqPortsoken						1844
The following have y	nassed I	he Che	ir.			
		,,,,				
Hunter, Sir C. S., BartBridge Withou	ut	0				1804
Lucas, M. P., Esq.—Tower .		P				1821
Thompson, W., Esq., M.P.—Cheap			Ь		n	1821
Key, Sir John, BartLangbourn		0				1323
Laurie, Sir P., Knt Aldersgate .						1826
Farebrother, C., Esq.—Lime-street		5				1826
Copeland, W., Esq., M.P Bishopsgate						1829
Kelly, T., EsqFarringdon Within						1830
Wilson, Samuel, Esq Castle Baynard						1801
Marshall, Sir C., Knt Bridge Within			e			1832
Pirie, Sir John, Bart.—Cornhill .						1834
Humphery, J. Esq., M.PAldgate						1835
Magnay, Sir William, BartVintry						1838

Royal Exchange opened, 28th Oct. 1844. The Lord Mayor, the Right Hon. William Magnay, created a Baronet on the occasion.

Recorder—Hon. C. E. Law, Q.C., M.P.
nt—J. Mirehouse,
nt—J. Mirehouse,
nt—J. Mirehouse,
nt—J. Mirehouse,
s=R. Gurney, A.
Sword Barerr—C. W. Hick, Esq.
Common Crier—S. Beddome, Esq.
Water Baitiff—N. Saunders, Esq.
Water Baitiff—W. Saunders, Esq.
Clerk to Lord Mayor—Mr. S. Good-Common Sergeant-J. Mirehouse, Common Sergeant—J. Mirehouse, Esq.

Esq.
Common Pleaders—R. Gurney, A. Ryland, H. Randell, and Peter Lauric, Esqrs.
Judge of Sheriffs' Court—E. Bullock, Esq.
Chamberlain—Anthony Brown, Esq.
Chamberlain—Anthony Brown, Esq.
Chamberlain—Anthony Brown, Esq.
Chamberlain—Anthony Brown, Esq.
Clerk to Lord Mayor—Mr. S. Goodman.
Clerk of the Peace—John Clark, Esq.
Corpore—William Payne, Esq.
Comptroller of Bridge House Estates—F. Brand, Esq.
Commissioner of Police—D. W. Harvey, Esq.

COURT OF BANKRUPTCY.

CHIEF JUDGE, Vice Chaucellor Bruce CHIEF REGISTRARS, Mr. Sergeant Edward Lawes and Mr. Barber COMMISSIONERS, Sir C. F. Williams, Mr. Sergeant Goulborn, J. Evans, J. S. M. Fonblanque, R. G. C. Fane, and E. Holroyd, Esqrs.

BIRMINGHAM—John Balguy, Q.C., Esq., and Robert Daniell, Esq.
LIVERPOOL—Walter Skirrow, Esq., and Charles Phillips, Esq.
MANCHESTER—Ebenezer Ludlow, Esq., Sergeant, and William Thomas

MANCHESTER—Evenezer Ludiow, Esq., Surgeaus, and Jemmett, Esq.

Leeds—Martin John West, Esq., and Montague Bere, Esq.

Bristol—H. J. Stephen, Esq., Sergeant, and Richard Stevenson, Esq.

Exeter—Edward Goulburne, Esq., Sergeant. NEWCASTLE-N. Ellisou, Esq.

INSOLVENT DEBTORS' COURT.

CHIEF COMMISSIONER, II. R. Reynolds, Esq. COMMISSIONERS, J. G. Harris, Wm. J. Law, and D. Pollock, Esqrs.

PROVISIONAL ASSIGNER, S. Sturges, Esq. CHIEF CLERK, J. Masey, Esq. CHIEF CLERK, J. Masey, Esq.
TAX MASTER, H. C. Richards, Esq.
CLERK OF THE RULES, C. V. White, Esq.



APRIL.

FLY-FISHING, NEAR HADDON HALL, DERBYSHIRE.

"No man should in honesty catch a trout till the middle of March," quoth the father of anglers, quaint, philosophical old Izaak Walton; and, in obe-dience to their master, all true brethren of the angle have by long usage fixed the 14th of March for fly-fishing to begin. The leaf-buds now give out the "No man should in honesty catch a trout till the middle of March," quoth the father of anglers, quaint, philosophical old Lzaak Walton; and, in obedience to their master, all true brethren of the angle have by long usage fixed the 14th of March for fly-fishing to begin. The leaf-buds now give out the first evidences of returning spring. Aroung the village church the jack-daw comes again—the marsh titmouse begins to raise its note; and, of all uature's signs of spring the most watched for by the trout-fisher, various files appear. The trolling-rod now gives place to its more pliant comper, and floats, plummets, snaps, and gorge-hooks are supplanted by hackles and flies. All the mysteries of a fly-fisher's wallet are now displayed, with varied spoils of hird and beast lying ready to the angler's practised hand, as from their gaudy colours he contrives mimic resemblances of the insect tribes who flutter over rippling streams. And learnedly does the "Complete Angler" discuss these things, telling how to weave "the lower fur of a squirrel's tail with the wings of the grey feather of the drake—the hairs of Isabella: coloured mohair, and the wings of a bright mallard's feather"—and a hundred other such compounds for constructing "an admirable fly, and in great repute as a killer." Learned piscatorial disquisitious are indulged in, too, as to the flies beat suited for each successive mouth; but here a golden rule presents itself. Let the angler watch the insects which hover over the stream where he seeks his sport—let him catch one and imitate its size, shape, and colour, and then he has the bait at which the fish will bite most readily. The fly-rod, says good authority, should be about twelve feet three inches long, and about fourken ounces in weight. It must not be top-heavy, nor must it have too much play in the lower part, but the play should be just in proportion to the gradual tapering, by which there will he very little spring, till after about the third foot of its length. A rod too pliable is as bad a fault as

bold prominence, and giving that character to the landscape which renders Derbyshire one of the most interesting and picturesque of the counties of England.

QUOITS.

QUOITS.

This game is much played during April. It does not depend so much upon superior strength as upon superior skill. The quoit has evidently derived its origin from the ancient discus; at the present day, it is a circular plate of iron, perforated in the middle, not always of the same size, but suited to the strength and convenience of the several candidates.

To play at this game, an iron pin, called a hob, is driven into the ground, within a few inches of the top; and at the distance of eighteen, twenty, or more yards, for the distance is optional, a second pin of iron is also made fast in a similar manner, and two or more persons who are to contend for the victory, staud at one of the iron marks, and throw an equal number of quoits to the other, and those nearest to the hob are reckoned towards the game. Having cast all their quoits, the candidates walk to the opposite side, and determine the state of the play, then, taking their stand there, throw their quoits back again, and coutinue to do so alternately until the game is decided.

The most skilful stroke in this game is what is termed ringing the quoit that is, casting it in such a manner that the hole in the middle shall fall exactly on the top of the hob.

that is, casting it in such a manner that the note in the minder shad in active active or the top of the hob.

It appears that quoits are used as implements of war by the Seikhs, an independent and martial tribe in India. Captain Mundy says, "The Seikhs have a great variety of weapons. I observed the musket, matchlock, sword, spears of sundry forms, daggers, and battle-axe; but tho arm that is exclusively peculiar to this sect is the quoit; it is made of beautiful thin steel, sometimes inlaid with gold; in using it, the warrior twirls it swiftly round the fore-finger, and launches it with such deadly aim, as, according to their own account, to be sure of his man at eighty paces."

ANGLING.

A Society has recently been formed, under the sanction of the Lord Mayor as Conservator of the Tbames, for the purpose of preserving the fish of that river, by preventing the use of illegal nets, and putting a stop to other unfair practices, which have been long resorted to for their destruction. Deeps have been staked, and other plans are in progress, to secure sport for the angler. If the society he supported as it ought to be by all who delight in the hoalthful and tranquil annusement, the Thames will, within a short period, become as unequalled for sport and enjoyment, as for its interest and beauty.

beauty.
Upon the banks of the Thames the noblest of British worthies have lived, Open the banks of the Thames the noblest of British worthies have lived, flourished, and died. Scarcely can we stand upon a spot that is not ballowed ground; or contemplate an object unassociated with some triumph of the mind. Thus the augler, while enjoying his sport, is revelling with nature, or with memory—the present, or the past.

Who loves not his own company, Will feel the weight of't many a day. COWLEY.

The increasing waimth of the weather, brings also increase of sport; with tench, perch, trout, roach, carp, gudgeons, flounders, bleak, minnows, and eels. Barbel, pike, chub, ruffe, and dace, spawn.

In April, the greeu tail and gravel flies come out: they are soon out of season, the former continuing not more than a week, and the latter about a fortnight. The black gnat, which continues till the end of May, and the stone fly complete this month's list.

The Aquatic Season commences; the various Yacht Clubs hold meetings and settle preliminaries for the matches of the season.

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	NU	MERN			OF TI	HE MEMBE	RS OF BOTH HOUSES	OF PA	KLIAME	NT.	
			LORDS	•				COMMO	NS.		
Peers of the	Royal 1	3lood			• •	2	ENGLAND-County Members				143
Dukes					• •	21	Isle of White		• •	• •	1
Marquises						19	Universities			• •	4
Earls						109	Cities, Boroughs, and Cine	ue Ports	••	••	323 471
Viscounts					• •	18	WALES-County Members	•	• •	••	15
Barons						121	Boroughs	• •		••	14 29
Archbishops				••	••	2	SCOTLAND - County Members				30
Bishops						24	Cities and Boroughs	• •			23 53
Scotch Repr	esentativ	e Peers		• •	••	16	IRELAND-County Members				64
Irish Peers						28	Universities	• •			2
Irish Spiritu	ial Peers					4 435	Cities and Boroughs	••	••		39 105
Deduct Rep	resentati	ve Peers w	ith English	Titles	••	9	8-1				
			-0			-	1				
						426					658

A TABLE OF ENGLISH WARS SINCE THE REVOLUTION IN 1688, Shewing the Sums expended during each War, and the progress of our Taxes and National Debt

J	The second representation of the second de large	DECITED THE STATE OF	thenden during tuen to	ary wii	t the	progress or	- Cui 1		inu Ma	HOHAI	Deor.		
	Name of War.	Our Opponents.	Our Allies.	War commenced	Years war lasted.	Ended by the Peace of	War Ended	Millions raised by Taxes. &	Millions raised by Loans.	Total of Expend.	Average of yearly Expend, in millions.	Average of the Yearly Poor-rates.	Average of Price of Wheat per qr.
	The War of the Revo-	The French	The Dutch, Austrians, Prussians, Spaniards,	1688	9	Ryswick.	1697	16	20	36	4	3 of a million.	s. d. 44 0
	The War of the Span- ish Succession.	French, Spaniards	and People of Savoy. Dutch, Austrians. People of Savoy, Portu-	1702	11	Utrecht	1713	30	32 1	321	51/2	a of a million.	44 6
	The Spanish War, 1739, and the War of the Austrian Succes- siou, 1741.	ì	guese. Austrians, Dutch, Russisns, Sardinians, Hungarians.	1732	9	Aix-La Chapelle.	1748	25	29	54	6	a of a million.	32 6
		French, Spaniards, Austrians, Russians.	Prussians	1756	7	Paris.	1763	52	60	112	16	l million.	39 3
	The American War.	Americans, Freuch, Spaniards, Dutch.		1765	8	Versailles.	1783	32	104	136	17	13 millions.	48 6
	The War of the French Revolution.	French, Spaniards from 1796.	Spaniards till 1795, Dutch, Prussians, Austrians, Portuguese		9	Amiens.	1802	2631	2001	461	514	34 millions.	78 6
	The War against Napo- lcon Buonaparte.	French, Spaniards till 1808, Americans.	Austrians, Prussians, Russians, Spaniards from 1804, Portuguese.	1803	12	Paris.	1815	7701	3881	1159	963	5⅓ millions.	92 8
-		Į.			65			1189	8341	2023			

WEATHER TABLE.

IMPROVED AND ILLUSTRATED BY THE LATE REV. ADAM CLARKE, L.L.D.

This Table, and the accompanying Remarks, are the result of many years actual observation; the whole being constructed on a duc consideration of the attraction of the Sun and Moon in their several positions respecting the Earth; and will, by simple inspection, show the observer what kind of weather will most probably follow the entrance of the Moon into any of her Quarters, and that so near the truth, as to be seldom or never found to fail.

MOON,	TIME OF CHANGE.	IN SUMMER.	IN WINTER.
If the New Moon.—the First Quarter,—the Full Moon,— or the Last Quarterhappens.	Betweeu Midnight and Two in the Morning Between 2 and 4 Morning Between 4 and 6 Morning Between 6 and 8 Morning Between 10 and 12 Morning Between 10 and 12 Morning At Twelve o'clock at Noon and to Two r.m. Between 2 and 4 Afternoon Between 4 and 6 Afternoon Between 6 and 8 Afternoon Between 8 and 10 Afternoon Between 10 and Midnight	Cold, with frequent showers Rain Wind and Rain Changeable Frequent Showers	Hard Frost, unless the Wind he S. or W. Snow and Stormy. Rain. Stormy. Cold Rain, if Wind W.; Snow, if E. Cold and High Wind. Snow or Rain. Fair and Mild. Fair. Fair and Frosty, if Wind N. or N.E. Rain or Snow, if S. or S. W. Ditto. Fair and Frosty.

1. The nearer the time of the Moon's Change, First Quarter, Full, and Last Quarter, is to Midnight, the fairer will the weather he during the seven days following.

2. The space for this calculation occupies from ten at night till two next

morning.

3. The nearer to Mid-day, or Noou, these phases of the Moon haupen, the more foul or wet the weather may be expected during the next seven days.

4. The space for this calculation occupies from ten in the forenoon to two in the afternoon. These observations refer principally to Summer, though they affect Spring and Autumn nearly in the same ratio.

5. The Moon's Change, First Quarter, Full, and Last Quarter, happening during six of the afternoon hours, i. e., from four to ten, may be followed by fair weather: but this is mostly dependent ou the Wind, as it is noted in the Table.

6. Though the weather, from a variety of irregular causes, is more uncertain in the latter part of Autumn, the whole of Winter, and the beginning of Spring, yet, in the main, the above observations will apply to those periods.

OBSERVATIONS ON THE WEATHER. (By the late Rev. W. Jones, of Pluckley.)

MISTS.—A white mist in the eveniug, over a meadow with a river, will be drawn up by the sun next morning, and the day will be bright.—Five or six fogs successively drawn up, portend rain.—Where there are high hills, and the mist which hangs over the lower lands draws towards the hills in the

the mist which hangs over the lower lands draws towards the hills in the morning, and rolls up to the top, it will be fair; but if the mist hangs upon the hills, and drags along the woods, there will be rain.

CLOUDS.—Against much rain, the clouds grow bigger and increase very fast, especially before thunder.—When the clouds are formed like fleeces, but dense in the middle, and bright toward the edges, with the sky bright, they are signs of a frost, with hall, snow, or rain.—If clouds breed high in the air, in thin white traius, like locks of wool, they portend wind, and probably raiu.—When a general cloudiness covers the sky, and small black fragments of clouds fly underneath, they are a sure sign of rain, and probably it will be lasting. Two currents of clouds always portend rain.

Drw.—If the Dew lies plentifully on the grass after a fair day, it is a sign

of another. If not, and there is no wind, rain must follow.-A red evening

of another. If not, and there is no wind, rain must follow.—A red evening portends fine weather; but if it spread too far upwards from the horizon in the evening, and especially morning, it foretels wind or rain, or hoth.—When the sky in rainy weather is tinged with sea green, the rain will increase; if with deep blue it will be showery.

HEAVENLY BODIES.—A haziness in the air which fades the sun's light, and makes the orb appear whitish or ill defined; or at night, if the moon and stars grow dim, and a ring encircles the former, rain will follow.—If the Sun's rays appear like Moses' horns, if white at setting, or shorn of his rays, or goes down into a bank of clouds in the horizon, bad weather is to be expected.—If the Moon looks pale and dim, we expect rain; if red, wind; and if of ber natural colour with a clear sky, fair weather.—If the Moon is rainy throughout, it will clear at the change, and perhaps the rain return a few days after. If fair throughout, and rain at the ohange the fair weather will probably return on the fourth or fifth day.

WIND.—If the wind veers about much, rain is pretty sure. If in changing it follows the course of the Sun, it brings fair weather; the contrary, foul. Whistling or howling of the wind is a sure sign of rain.

METEORS.—The Aurora Borealis, after warm days, are generally succeeded by cooler air. Shooting stars are supposed to indicate wind.

ANIMALS.—Before rain, swallows flow; dogs grow sleepy and eat grass; water food dive much; fish will not bite; files are more troublesome; toads crawl about; moles, ants, bees, and many insects are very husy; birds fly low for insects; swine sleep, and cattle are uneasy, and even the humau hody.

Observations of Dr. Kirwan.

1. When there has been no particular storm about the time of the Spring equinox (March 21), if a storm arise from the east on or before that day; or if a storm from any point of the compass arise near a week after the equinox, then, in either of these cases, the succeeding summer is generally dry, four times in five.

2. But if a storm arise from the S.W. or W.S.W. on or just hefore the Spring equinox, then the Summer following is generally wet, five times in six.



JACK-IN-THE-GREEN.

Now the bright moretup star, day's harbinger, Comes dancing from the east, and leads with her The flow'ry MAY, who from her green lap throws The yellow cowslip and the pade primose. Hall, bounteous MAY! that dost inspire Mirth and youth with warm desire. Woods and groves are of thy dressing; Hill and dale doth boast thy blessing; Thus we salute thee with our early song, And welcome thee and wish thee long!

So sings Milton to the sweet hird-month—he whose mighty mind, "nigh sphered in Heaven," hymned the soft beauty of the first day that dawned upon the infant world, which surely must have been a May-morning—

Sweet day, so calm, so pure, so bright, The hridal of the earth and sky!

Sweet day, so calm, so pure, so bright,
The hridal of the earth and sky!

The custom of welcoming is May-morning has been observed in various manners in different countries. We say "bas been," for the refinements of civilization have in a great degree banished all the festival observances of our merry ancestors. Flut, perhaps, although Nature forgets not to bestow "her 'custom'd liverics on the fields and groves" at the usual time, no season has lost its poetic charm so much as the sweet May. A Solitary bonfire, with a May-bush and pole are yet to be seen here and there in retired nooks and corners of Old England, to the delight of the children, "your only chroniclers of merriment" now-a-days; hut the games of this delightful season have nearly all vanished away from the general seene of the country. "Jack-in-the-Green," the gay scene represented in our engraving, is one of the few relies of the May festivals.

Time was when from the court to the cottage all "rose up early to observa the rite of May." Some weut "a-de-w-gathering," a sort of rustic love-spell that was sure to enchant every village-maiden, gentle or simple; others to "fetch in May," a rivalry that "robb'd many a bawthorn of its half-blown sweets;" while others set their wits to work to get up some pretty device, some rural drama, the purpose of which was to bring The Ladie of the May into a termination of ber last year's conquetting between two rival suitors.

One of the additions to "The Countess of Pernbroke's Arcadia, written by Sir Philip Sydney, Kniight," is an account of a rural mask, or May-game, performed at Wanstead, in honour of Queen Elizabeth, which begins thus:—

"Her most excellent Majestie walking in Wanstead Garden, as she passed down into the grove there eame suddenly among the train one apparelled like an honest man's wife of the countrie; where crying out for justice, and desiring all the lords and gentlemen to speak a good word for her, shee was brought to the presence of her Majestie, to whom upon her knees she offered a supp

siring all the lords and genuemen to speak a good word for her, since was brought to the presence of her Majestie, to whom upon her knees she offered a supplication," &o.

Msy-poles, Muy-fairs, and May-games, ara as old as any English sports we have on record. May-poles may still be seen in some of our villages, decorated with garlands, for young people to daoee round. Formerly, the inhabitants of London used to go out early in the morning to fetch May from the neighbouring fields, and return with it in triumph. The church of St. Andrew-under-Shaft, in Leadenhall-street, is so named from a pole or shaft which used to be set up there on May-day, higher than the church-steeple; and this May-pole is mentioned by Chaucer. Another, alluded to by Beaumont and Fletcher, flourished in the Strand, nearly upon the site of the church of St. Mary-le-Strand. This May-poie was removed in 1713, and a new one erected July 4, opposite Somerset House; it had two gilt balls and a vane on the summit, and was decorated on festival days with flags and garlands. This second May-pole was taken down in 1718, when Sir Isaao Newton procured it from the inlabitants, and afterwards sent it to the Rev. r. Pound, rector of Wanstead, Essex, who obtained permission from Lord Castlemaine to erect it in Wanstead-park, for the support of the then largest telescope in Europe, made by Mons. Hugon, and presented by him to the Royal Society, of which he was a fellow. Soon afterwards, the following limping verses were affixed to the May-pole:—

"Once I adorned the Strand,

"Once I adorned the Strand, But now I've found My way to Pound, In Baron Newton's land:

Where my aspiring head aloft is reard,
T' observe the motions of th' etherial herd.
Here sometimes raised a machine by my side,
Through which is seen the sparkling milky tide:
Here oft I'm seented with a balmy dew,
A pleasing blessing which the Strand no'er knew.
There stood I only to receive abuse,
But here converted to a nobler use;
So that with me all passengers will say So that with me all passengers will say, I'm better far than when the pole of May."

A third pole must have been set up in May-fair, where a fair, which still gives name to the spot, was held for fifteen days.

Stubs describes the "May pole" as the "chiefest jewel," which the people "bring home with great veneration, as thus—they have twentie or fortie yoake of oxen, every oxe having a swecte nonegate of flowers tied to the tip of his hornes, and these oxen draw home the Maie pole * * which they covered all over with flowers and hearbes, hound round with strings from the top to the bottome, and sometimes it was painted with variable colours, having 200 or 300 men, women, and children following it with great devotion. And, thus eqoipped, it was reared with handkerchiefs and flagges streaming on the top, they strawe the ground round about it, they bind green boughs about it, they set up summer halles, howers, and arbours hard by, and then fall they to banquetting and feasting, to leaping and deuncing about it."

Sir Henry Ellis quotes an old pamphlet, in which we find the May-pole mentioned in a new and eurious light. We gather from the writer that our ancestors held an anniversary assembly on May-day, and that the column of May, whence our May-pole, was the great standard of justice, in the Ey-commons, or fields. Here it was that the people, if they saw cause, deposed or punished their governors, their harons, or their kings. The judges' bough or wand (at this time discontinued, or only faintly represented by a trifling nosegay), and the staff or rod of authority in the civil and in the military (for it was the mace of power, and the truncheon of the field officers), are both derived from hence. A mayor, he says, received his name from this May, in the sense of lawful power; the crown, a mark of disparity, was also taken from the May, being representative of the garland or crown, which, when hung on the top of the May, or pole, was the great signal for convening the people; the arches of it, which spring from the circle and meet together at the mound or round hall, being necessarily so formed, t top of the pole. He also tells us of a mock-hattle custom between youth, the one party in winter and the other in spring livery; when spring was sure to gain the victory.

gsin the victory.

Washington Irving says: "I shall never forget the delight I felt on first seeing a May-pole; it was on the bunks of the Dee, close by the picturesque old bridge that stretches across the river from the quaint little city of Chester. I had already been carried back into former days, by the antiquities of that venerable place, the examination of which is equal to turning over the pages of a black letter volume, or gazing on the pictures in Froissart. The May-pole on the margin of that poetic stresm completed the illusion. My fancy adorned it with wreaths of flowers, and peopled the green bank with all the dancing revelry of May-day. The mere sight of this May-pole gave a glow to my feelings, and spread a charm over the country for the rest of the day: and as I traversed a part of the fair plains of Cheshire, and the beautiful borders of Wales, and looked from among swelling hills down a long green velley, through which the Deva wound its wizard stream, my imagination turned all into a perfect Arcadia. One can readily imagine what a gay scene it must have been in jolly old London when the doors were decorated with flowering braoches; when every hat was decked with hawthorn; and Robin Hood, Friar Tuck, Maid Marian, morris-dancers, and all the other fantastic dancers and revellers were performing their anties about the May-pole invery part of the city. I value every custom which tends to infuse pocitical feeling into the common people, and to sweeten and soften the rudeness of rustic manners, without destroying their simplicity." Washington Irving says: "I shall never forget the delight I felt on first

ANGLING.

Perch, ruffe, bream, gudgeons, flounders, dace, minnows, eels, and trout, may be taken. Carp, barbel, tench, chub, roach, and bleak, spawn.

EXHIBITIONS AND AMUSEMENTS OF THE METROPOLIS.

NAME.	SITUATION.	Days of Admission.	Hours of Admission.	Price of Admission.
cient Masters (Paintings by) •	49, Pall Mall	Daily	10 to 4	ls
itish Institution (Paintings)	52, Pall Mall	Daily	Opens in June, 10 to 4	ls
alwich Gallery (Ditto)	Dalwich College	Every Day, except	April to Nov., 10 to 5; Nov.	Free
Town of a College (Table)	50 D-11 N-11	Friday	to April, 11 to 3	
James's Gallery (Ditto)	58, Pall Mall	Daily Changles	9 to 4	ls
tional Gallery (Ditto) • • •	Trafalgar-square	Monday, Tuesday Wednesday, Thursday	1st Nov to 30th April, 10 to 5; 1st May to Sept., 10 to 6	Free
oyal Academy (Paintings)	Trafalgar-square	Daily	Opens in May, 8 to dusk	Is
ize Cartoons	209, Regent-street	Daily	1 to dusk	ls
ciety of Painters in Water Colours	Pall Mall, East	Daily		έÌ
flolk-street Gallery	Suffolk-street, Pall Mall	Daily	Opens in May, 9 to dusk Opens in April, 10 to 4	1s
iter Colours (New Society)	Pail Mall, East	Daily	10 to 4	18
nford's Panorama - Hong Kong,	Leicester-square	Daily	10 to dusk	ls cach Vic
Baden Baden, and Balbee.	Parad P 1		0	
losseum	Regent's Park		Opens in May	
orama	209, Regent-street Regent's Park	Daily Daily	10 to dusk 10 to 5	1s 2s
itish Museum	Great Russell-street, Bloomsbury	Manday Walanday	Sept. 7th to May 1st, 10 to 4;	Freo
THE MACHINE	areas available areas, into our soury	Monday, Wednesday, and Friday	May 7th to Sept 1st, 10 to 7	1100
incse Collection	St. George's place, Hyde Park Corner	Daily	10 to dusk, and 7 to 10	ls
st India Company's Museum -	East India Ilouse, Leadenhall-street	Saturday	10 to dusk, and 7 to 10 11 to 3	Free
ological Museum	Craig's-court, Charing Cross	Daily	10 to 4	Free
ssionaries' Museum	Bloomfield-street, Moorfields	Tuesday, Thursday	March 25 to Sept 29, 10 to 4; rest of the Year, 10 to 3	Freo
		and Saturday	of the Year, 10 to 3	
poleon Museum	Egyptian Hall, Piccadilly	Daily	10 to dusk	ls
yal Institution Museum yal Military Repository	Albemark-street Woolwich	Daily	10 to 4 9 to 11, aud 1 to 4	Member's O Free
me's Museum	13, Lincoln's Inn-fields	Daily Thursday and Friday	10 to 4	Free
rgeons' Museum	Lincoln's Inn-fields	First Four Days in	12 to 4	Member's O
		the Week		
ited Scrvice Muscum	Scotland-yard, Whitehall	Daily	April to Sept., 11 to 5; rest of the Year, 11 to 4	Member's O
stom House	Lower Thames-street	Daily	9 to 3	Free
cenwich Hospital	Greenwich	Daily	9 to dusk	_3d
mpton Court Palaco	Hampton, Middlescx	Daily, except Friday	Before 2 o'clock 10 to 3	Fice Free
w Gardens	King-street, Cheapsido Kew, Surrey,	Daily Daily	10 to 3	Free
nsion llouse	Facing Cornhill	Daily Daily	11 to 3	Free
nnment	Fish-street-hill	Daily	9 to dusk	6d
Paul's Cathedral	Ludgate-hill	Daily	10 to dusk	6d up to 4s
wer of London	Tower-hill	Daily	10 to 4	ls
stminster Abbey	Palace-yard, Westminster	Daily	9 to dusk 3;	6d
ndsor Castle	Windsor	Monday, Wednesday,	- 44:	_
1 .077 11 01	7. T 1 D 3	Thursday, Saturday.	10.11	
ke of York's Column • • • • • • • • • • • • • • • • • • •	St. James's Park Lowther Aroade, West Strand	Daily	12 to 3	6d Is
yteohnio Institution	309, Regent-street	Daily Daily	11 to 5, and 7 to half past 10 11 to half-past 5, & 7 to half-past 10	15
eiety of Arts	John-street, Adelphi	Daily, except	10 to 2	Member's
		Wednesday		
lin's Indian Exhibition	Egyytian Hall, Piccadilly	Daily	Announced by daily bills	1s
ptford Dockyard	Deptford	Daily	10 to 3	Free
Glaciarum	Bazaar, Baker-strect	Daily	11 to 10	la
ncy Glass Exhibition	151, Strand	Daily	10 to 9	6d
awood's (Miss) Exhibition	Leioester-square	Daily	10 to dusk	ls Enga
del of Pisa	Opposite Tower-hill	Daily	11 to 3	Free ls
isian Anatomical Model	209, Regent-street	Daily Daily	10 to 5 10 to 6	18
rey Zoological Gardens	Manor place, Walworth	Daily	9 to dusk	13
ames Tunnel	Wapping and Rotherhithe	Daily	Constantly	1d for Tol
ssaud's (Madame) Exhibition -	Bazaar, Baker-street, l'ortman-square	Daily	In Summer 11 to 10; Winter 11	ls
		1	to dusk, and 7 to 10	
	Egyptian Hall, Piccadilly	Daily	11 to 1, and 2 to 5	1s
aloutable Assessed Dr. 1 (D)	Egyptian Hall, Piccadilly	Daily	11 to 2, and 3 to half-past 8	ls Even
olwich Arsenal, Rocket Room, and	Woolwich	Daily	9 to 11, and 1 to 4	Free
Dockyard Dogical Gardens	Regent's Park	Daily	10 to dusk	la la
Drown or or or or or	Tropour Turn	Dairy	10 00 0000	

THEATRES.

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MISCELLANEOUS EXHIBITIONS, AMUSEMENTS, &c.

	Those marked thus (*) require Tic.	kets.
* Asiatic	Museum, Grafton-street (Monday, Wed-	Bot

Alt the others must be paid for.

* Asiatic Museum, Graton-street (Monday, nesday, and Friday).
Chelsea Military Academy, (Friday).
* Entomological Museum, Bond-street (Tucsday).
Faraday's Lectures, Royal Institution (Tuesday, Thursday, and Saturday).
House of Lords (Wednesday and Saturday).
Hullali's Singing Classes (Monday and Thursday).
* Linnean Collection, Soho-square (Wednesday, and Friday).

* Linnean Confection, School Strainting, and Friday).

DALLY: Agricultural Society's Painting.

* Ashburton Collection, Piccadilly.

Australian Scenery, Strand.

Baden Baden, Leicester-square.

* Pank**

+ Bank.

* Bevan Collection, Connaught-place.

* Botanic Gardens, Chelsea.

Those marked thus (†) are Frec.

Botanical Gardens, Gravesend.

* Bridel Collection, Eaton-square.
Ceiling Painted by Rubens, Royal Chapel, White-hall.

hall.
Commission of Fine Arts.
Corregio's Works, 57, Pall Mall.
* Economic Geology Museum.
Frescoes of Paul Veronese.
* Geological Museum, Somerset House.
Greenwich Observatory.
* Grosvenor Gallery, Upper Grosvenor-street.
† Gresham Lectures.
Hong Kong, Leicester-square.
* Hope Collection, Duchess-street, Portland-place.
* Hope Collection, Duchess-street, Portland-place.
* Horizultural Gardens, Chiswick.
Loddige's Museum, Hackney.
† Magic Cave, Strand.

† Minasi's Pen and Ink Drawings, Praed-street.
Paintings in Wax, 60, Quadrant.
† Pantheon, Oxford-street.
Parisian Venus.
* Peel Collection, Whitehall Place.

* Peel Collection, Whitehall Place,
Rock Harmonicon.

* Rogers' Collection, St James' Place,
Rome (Model of), 121, Pall Mall.
Royal Botanie Gardens, Regent's-park.

* Stafford-house, St. James's.
Thie Giraffes, Hammersmith.
The Queen at Treport, Leicester-square,
Vauxhall Hogarth's, Tichborne-street.
Vernon's Collection, 50, Pall Mall.
Waterton's American Plants, Chelsea.



OTTER-HUNTING

THE chase of the Otter is still an item in the catalogue of "the sports of England;" but its proudest records must be sought in the older annals of sporting in this country.

"The pomp and circumstance" of the olden Otter-chase were very striker.

ing: the huntsmen sallied forth arrayed, in vests of green, braided with scarlet, their caps of fur encircled with hands of gold, and surmounted with ostrich plumes. Boots, much of the fashiou of those known to modern huntingostrich plumes. Boots, much of the fashiou of those known to modern hunting-fields, reaching to the tops of the thighs, and water-proof, encased their lower limbs, and were ornamented with gold or silver tassels. Their spears were also embellished with carving and costly mountings; the whole sel-out of the higher classes engaged in these water-huntings being of a very picturesque and imposing character. "Towards the latter end of the last century, otter-hunting was one of the most popular of our field sports, and the list of establishments supported for its pursuit would have, probably, outnumbered those devoted to hunting in any of its other forms. Regular packs of otter-hounds were kept in almost every parish, and an otter-pole was as common an instrument in the peasant's hands as a walking-stick. It was much more simple than the spear now in use; it was merely a stick of straight ash, shod with a common into harb head, or a fork of two prongs, also arrow-headed. With these weapons in their hands, and a motley group of miscellaneous curs at their heels, the village rustics would he them to the neighbouring streams, to chase, in humble limitation of their betters, the

laneous curs at their heels, the village rustics would hie them to the neighbouring streams, to chase, in humble imitation of their hetters, the Mustela lutea of the naturalist." (Craven.—Sporting Review.)

But otter-hunting is now fast dying away, though it is still kept up in parts of Ireland, Scotland, and Wales. Mr. Macgillivray informs us that Mr. Lomaire hunted the Dumfriesshire rivers in 1833, 1831, 1835: and that Lord John Scott keeps a park of ctter-hounds for the streams of Roxburghshire. "The modern otter-spear," says Craven, "is an article of some artistical pretension. It is, like its predecessor, a long flexible ashen pole, but headed with a barh somewhat scientifically constructed. The smaller end of the pole heing hored and fitted with a countership (a female servey and

headed with a barb somewhat scientifically constructed. The smaller end of the pole being bored and fitted with a counter-sink (a female screw and collar), a spring barb is screwed to it. The barb is so constructed, that, being driven iuto the hide of the quarry, it expands, and gives out two hooks, which effectually prevent the hold of the spear being destroyed by any efforts of the animal to release itself."

In England but few other packs exist, but a splendid run is occasionally enjoyed. Thus, on September 14, 1841, the Haworth and Stockton otter-hounds commenced running on the river Tees, at Dinsdale Spa fish-locks, and, on the first day, terminated at Low Middleton Deeps, where the otter was acized, but again set at liberty, and hunted till dark. The chase was renewed next day at Dinsdale-bridge, when, after another glorious run, the otter was secured. His length was four feet two inches and a half; and, taking the time occupied during both days, fifteen hours were devoted to the chase—a circumstance unparalleled in the annals of otter-hunting.

The best of modern otter-slayers, however, and the most experienced

chase—a circumstance unparalleled in the annals of otter-hunting.

The best of modern otter-slayers, however, and the most experienced authority on the sport, is the Hon. Grautley Berkeley, of Beaoon Lodge, in Hampshire; who, with four old fox-hounds and three white terriers, enjoyed some splendid otter-hunting in the New Forest, during the summer of 1840, when he put four other otters down, and killed them all.

We understand that the crack pack of otter-hounds helonging to E. Dixon, jun., Esq., of Worcester, has had some splendid hunts of late. Near Bromyard no fewer than three otters were killed in one day, but not before some of the hounds were so knocked up as to require putting into a warm bath. Although the otter rejects all balts in the trap, an instance occurred in August, 1790, in theriver Buckland, near Dover, of his taking a line bait. An otter suddeuly darted from his holt, and seized the bait of a geutleman trolling for pike, who thought the bait was taken by an overgrown fish, in conse-

quenoe of the animal's violent struggles. After a long contest, in which the troller displayed much skill, to his great astonishment and that of others upon the spot, he drew the otter to the shore completely exhausted.

RACING.

RACING.

The Sporting Calendar of this month boasts of the gaiety and splendour of the races at Epsom and Ascot Heath. The Derhy day at Epsom is an illustrated epitome of the history of English sports, manners, and society. It is, truly, a national scene, and one so peculiarly and so completely national, so identified with the very nature of Englishmen, that it will show more of the national character to a foreigner in a few hours than months of residence and inquiry could furnish even to an industrious and judicious investigator. There is a sort of magic in the words Epsom Races, which arouses the hopes, recollections, anticipations, and sympathies of hundreds of thousands of people of all classes of society throughout the great metropolis of Britain from one end to the other, and throughout the whole length and breadth of the land. The spirit of borse-racing is peculiar to this country; it is a spirit indigenous with Englishmen, and though it has of late years been extended to the Continent, it is there as yet but a sickly importation, and can only be kept alive by the usual means and appliances for the preservation of exotics and interpolations. Here may be seen an almost endless succession for several hours of those elegant carriages, the workmanship of the celebrated huilders of Long Aere, &c., unequalled, and not to be equalled, in lightness, strength, convenience, and beauty, by the coachbuilders of all the rest of the world put together. These carriages are drawn by horses of matchless strength and action—horses that are superior to any others to be met with in France, Italy, Germany, or Spain. Here may he seen, "going along" at twelve miles an hour, nearly five hundred pairs of "posters," the property of a single post-master, driven by "boys" dressed in the neat costume of their "profession," besides several hundred of other "posters" the property of a single post-master, driven by "boys" dressed in the neat costume of their "profession," besides several hundred of other "posters" the property of a sin

and one which many will long remember with pleasure, and talk of hereafter

and one which many will long remember with pleasure, and talk of hereafter as one of the best things in memory's waste.

The first Arabian, which had ever been kuown as such in England, was purchased by the royal jockey, of a Mr. Markham, a merchant, at the price of five hundred pounds. That illustrious master of the science of equitation, the Duke of Newcastle, in his treatise, describes this Arab as a little hay horse, of ordinary shape, and judges he was good for nothing, because, heing trained and started, he could not race, but was heaten by every horse which ran against him.

ANGLING.

In June, roach, dace, minnows, bleak, gudgeons, eels, harbel, ruffe, perch, pike, and trout, are in season. Carp, tench, bream, and gudgeons spawn. The white gnat, oock-tail, gold spinner, governor, blue gnat, whirling dun, hares' ear, and kingdom flies, make their entrée. The gold-spinner, governor, and kingdom flies continue till August; the blue gnat for about a fortnight, and the other flies in this month's list, during the summer.

LONDON EXCURSION GUIDE,
SHOWING A NUMBER OF TRIPS WHICH MAY BE MADE ROUND LONDON, WITH THE DISTANCES, OBJECTS OF ATTRACTION. AND EXPENCES.

TION, AND EXPENCES.										
Name of Place.	Distance.	Lowest Fares.	Conveyances, and other Particulars.	Attractions.						
Blackwall -	5 miles	0s. 4d.	Steamboats from Hungerford Market, London Bridge, and intermediate	White-bait dinner and river view						
Brighton -	50 "	5 0	Stations.—Railway from Fenchurch street. Railway from Loudon Bridge. The journey only occupies 2½ hours—fine	-sailing boats and rowing. The sea, promenades, baths, and						
Chelsca	3 "	0 4	views on the road. Steambouts from London Bridge, Vauxhall, and intermediate Statious	Pavilion. Chelsea College, Cheyne Walk,						
Dover -	72 ,,	6 0	Steamboats from London Bridge, and Railway. The trip by water very	a pleasant promenade. Dover Castle, Shakspeare's Cliff,						
Dulwich	6 "	1 0	pleasant in fine weather—occasional fine views from the railroad. Omnibuses. Pleasant drive. Tickets to be obtained at Ackermann and Co.'s	marine views, baths, &c. Fine Picture Gallery and de-						
Gravesend -	21 ,,	1 0	Steamboats every morning from Hungerford Market and London Bridge. A very interesting and agreeable trip.	lightful scenery. River Scenery, Tilbury Fort, Cobham Hall, Picture Gallery.						
Greenwich -	5 ,,	0 4	Steamboats from Hungerford Market, London Bridge, and intermediate Stations. Railroad from London Bridge. Onunibuses (6d.) from Westend and City, or from Elephant and Castle.	Condain Hail, Picture Gallery, Hospital, with Picture Gallery, Chapel, &c., fine Park, Obser- vatory, &c. Gallery and Chapel open, gratis, on Mondays and Fridays—other days, 3d. each.						
Hampton Court	11 "	I 6	Steamboats from London Bridge, and Railway from Nine Elms; the latter several times a day. The boats to Nine Elms every half hour. The rail takes to Kingston, whence a pleasant walk to Hampton Court.	Hampton Court Palace and Gallery of Pictures, admission free —fine gardeus and walks.						
Harrow -	12 ,,	1 0	Birmingham Railway, Eustou-square. A pleasant trip	Charming prospects, Byron's school,						
Herne Bay	39 "	4 0	Steamboats from various Quays below London Bridge	Pleasant maritime trip—gene- rally fine sight of ships sailing						
Kew Margate	10 72 ,	1 0 6 0	Steamboats (Richmond) to Kew Bridge. Onnibuses Steamboats from Quays at and below London Bridge. The old Marine suburb of London.	The Royal and Botanic Gardens. Fine marine views, pleasant walks						
Nore (The)	55 "	2 6	Steamboats from Quays at and below London Bridge. Fleet of men-of-war.	on the cliffs. Generally a crowd of sail of mer chantmen.						
Norwood · -	7 ,,	0 6	Omnibuses and Railway from Bricklayers' Arms. A very pleasant rido -	Beulah Spa, Penge Wood, An nerby Gardens, &c.						
Putuey -	6 ,,	0 8	Omnibuses and Steamboats (See Chelsea)—get down at Putney Bridge -	Pleasant river-side village—birth- place of Gibbon.						
Rsmsgate -	72 "	5 0	Steamboats from Wharfs below London Bridge. A favourite watering-	Sea views and bathing.						
Richmond -	11 "	1 6	Steamboats from London Bridge and Hungerford Stairs	Richmond Hill-pleasant walks and rides-fine scenery.						
Southend - Twickenham -	50 ,, 15 ,,	2 0 1 6	Steamboats from below Londou Bridge. (See Margate, &v.) Steamboats from London Bridge. (See Richmond, &v.) Trip up the Thames.	Sea and land views, shipping, &c. Beautiful prospects, Pope's Villa.						
Waltham .	15 "	1 0	Northern and Eastern Railway, Shoreditch	The ancient Cross raised to the memory of Queen Eleanor, Waltham Abbey, views in Ep- ping Forest, &c.						
Watford -	18 "	2 0	Birmingham Railway, Euston-square	Pleasant town — Lord Exeter's l'ark.						
Windsor	21 ,,	I 6	Great Western Railway to Slough, wheuce the visitor is conveyed to the Castle for 6d. more. Pleasant boat excursion from Richmond to Wind-	Wiudsor Castle—a noble fabrio— a royal residence. Fine pictures and other objects of interest.						
Woolwich	8 ,,	8d. & 6d.	sor up the sylvan Themes, Steamboats every half-hour from Hungerford, London Bridge, &c. (See Greenwich, &c.) Railroad to Greenwich, steamboats from the latter place every half-hour to Woolwich.	Dockyard and Arsenal, two of the most remarkable establishments in the world.						
NEW CORN LAW DUTIES. If imported from any FOREIGN COUNTRY. WHEAT. Whenever the average price of Corn, made up and published in the manner required by law, the Duty shall be for every Quarter:— Under 51s 20s. 59s. and under 60s 13s. 66s. and under 69s 6s. 51s. and under 52s 19 60 61 12 69 70 5										
52 5			18 61 62 11 70	71 4						

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WHEAT, MEAL, AND FLOUR For every barrel, being 196 pounds, a duty equal in amount to the drity payable on 384 gallons of Wheat.																	
OATMEALFOR	every quantit	v of ISI3 r	oounds.	a dut	ty equal in	amou	nt to th	e duty	payable	on a	t ouar	ter of Oats.	• •				
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WHEAT, MEAL, AND FLOUR.—For every barrel being 196 pounds, a duty equal in amount to the duty payable on 33½ gallor is of Wheat.

OATMEAL.—For every quantity of 181½ pounds, a duty equal in amount to the duty payable on a quarter of Oats.

MAIZE OR INDIAN CORN, BUCK WHEAT, BEAR OR BIGG.—For every quarter, a duty equal in amount to the duty payable on a quarter of Barley.

CANADA CORN.

By the Act passed in the Session of 1843, Corn from Canada is admitted into England on payment of Is. a quarter duty;: a duty of 3s. a quarter being imposed on Corn admitted into Canada,—Total fixed duty 4s. a quarter.



DEER STALKING.

W. SCROPE, Esq , one of the best deer-stalkers in the world, and quite the best writer about deer stalking, says-

W. Schoff, Esq. one of the best deer-stalkers in the world, and quite the best writer about deer stalking, says—

"Your consummate deer-stalker should not only be able to run like an autelope, and breathe like the trade-winds, but should also be enriched with various other undeniable qualifications. As, for instance, he should be able to run in a stooping position, at a greyhound pace, with his back parallei to the ground, and his face within an inch of it, for miles together. He should take a singular pleasure in threading the seams of a bog, or in gliding down a burn, ventre à terre, like that insituating animal the cel,—accomplished he should be in skilfully squeezing his clothes after this operation, to make all comfortable. Strong and pliant in the ankle, ho should most indubitably be; since, in running swiftly down precipices, picturesquely adorned with sharp-edged, angular, vindictive stones, his feet will, unadvisedly, get into awkward cavities and curious positions:—thus, if his legs are devoid of the faculty of breaking, so much the better,—he has an evident advantage over the fragile man. He sbould rejoice in wading through torrents, and be able to stand firmly on water-worn stones, unconscious of the action of the current; or if, by fickle fortune, the waves should be too powerful for him, when he loses his balance, and goes floating away upon his back (for if he has any tact, or sense of the picturesque, it is presumed he will fall backwards), he should raise his riflo aloft in the air, Marmion fashion, lest his powder should get wet, and his day's sport come suddenly to an end. A few weeks' practice in the tilt will make him quite au fait at this. We would recommend him to try the thing in a speat, during a refreshing north wind, which is adverse to deer-stalking; thus no day will be lost pending his education. To swim he should not be able, because there would be no merit in saving himself by such a paltry subterfuge; encither should he permit himself to be drowned, hecause we have an affection f neither should he permit himself to be drowned, hecauso we have an affection for him, and moreover it is very cowardly to die.

"As to mental endowments, your sportsman should have the qualifications of an Ulysses and a Philidor combined. Wary and circumspect, never going rashly to work, but surveying all his ground accurately before he commences operations, and previously calculating all his ohnomes both of success and failure. Patience under suspense and disappointment, calm and unruffled in moments of intense interest, whether fortune seems to smile or frown on his exertions; and if his bosom must throb at such times, when hopes and fears by turns assail it, he should at all events keep such sensations under rigid control, not suffering them to interfere with his equanimity, or to disturb the coolness and self-possession which at such moments are more than ever necessary to his operations.

"That Deer-Stalking is a chace," says Mr. Scrope, "which throws all other field-sports in the hack ground, and, indeed, makes them appear wholly insignificant, no one, who has been initiated in it, will attempt to deny. The beautiful motions of the deer, his picturesque and noble appearance, his sagacity, and the skilful generalship which can alone insure success in the pursuit of him, keep the mind in a state of pleasurable excitement." Yet, with all this excitement, the fall of the noble animal recals the lament—

"Magnificent creature! to reach thee I strain Through forest and glen, over mountain and plain; Yet, now thou art fallen, thy fate I deplore, Aud lament that the reign of thy greatness is o'er."

THE HON. T. LIDDELL.

The localities of Decr-stalking are principally confined to the Highlands

of Scotland, consequently they embrace some of the most interesting scenery imaginable. The Highlands are nominally divided into the West and the North. The former owns the shires of Dumbarton, Argyle, Bute, and part of Perth; the latter comprehends the counties of Inverness, Ross, Sutterland, &c. In curly times, the red deer and noe particularly abounded. Since, increased population, and the attention paid to local agriculture, have reclaimed much of the ground, and appropriated it to the culture of catte, particularly to rearing of sheep. There, however, still remain the Highland firests, which, being the property of persons of rank and wealth, are yet preserved for the accompodation of wild game, but particularly of red deer. It is common to call all the vast tracts which form the natural range of the red deer, by the name of forest; but he reader must not consider these as a continuous tract of vast woods; on the contrary, many of these so-called forests are entirely destitute of wood, except occasionally, scattered patches of brushwood. Ancient chronicles, however, assure us that many of them, in bygone days, were thickly wooded, although their other features were those of rocky heights, of vast extent and wildness, abruptly terminating in morasses, which frequently ended on the hank of some expansive loch.

CRICKET.

THIS truly English game of strength and activity is now in its zenith, and all the oricket olubs are open for the season. Formerly, cricket was almost confined to the southern counties: Kent, Sussex, and Surrey, more especially, have always been famous for skill in it. Of late years it has spread a good deal in the northern quarter of the island; there is scarcely a county in England without its regularly established cricket club; and in Sootland, where, a few years back, cricket was altogether unknown, it is now making a surprising advance.

sing advance.

The rules of cricket are, at once, too well known, and too complicated, to be here explained: they are subject to variations, at the pleasure of the Marylebone club, which meets at Lord's cricket ground, St. John's Wood. The laws and decisions of that society are recognised by cricket players in general, in the same way that the authority of the jockey club is held definitive, in questions relating to horse racing. Corrected laws were issued by the society in May, 1844. Cricket is played almost exclusively by the British, who have carried it into many parts of the world, where the climate seems little suited to the exertion which it requires: as, for example, in Bengal.

To one intimate with the country, and, therefore, foud of rural enjoyment, July offers two very peculiar sources of pleasure. It is the season of haymaking, and of sheep-shearing, both of which operatious still retain much of the gaiety of ancient festivals. Shakspeare and Dnayton have poetically described the recreations of our aucestors at these rural feasts, and a writer of more recent date, Dyer, has made "The Fleeco" the subject of a beautiful and patriotic perm. patriotic poem.

ANGLING.

In July trout, dace, flounders, eels, bleak, minnows, pike, barbel, gudgeons, and roach, afford good sport. Bream and carp spawn.

In July, August, and September, the fly-fishing lists are very scanty; in the first-named month, the red aut; in the second, the whirling bine; and in the last, the willow fly, are the only novelties; they continue in use till the conclusion of the fishing season.

FOREIGN COINS IN BRITISH VALUE.

Crusade-Portugal, 2s. 5d.

Dollar—Spanish, 4s. 6d.
Ducat—Flanders, Holland, Bavaria, Sweden, 9s. 3d.; Prussia, Austria, and Saxony, 9s. 4d.; Denmark, 8s. 3d.; Spain, 6s. 9d.
Florin—Prussia and Poland, 1s. 2d.; Flanders, 1s. 6d.; Germany, 2s.
Franc—Frenoh, 10d.

Louis d'Or—20s. Moidore—Portugal, 27s. Pagoda—Asia, 8s. 9d.

Guilder-Dutch, 1s. 9d.; German, 2s. 4d.

As almost all estimates of French expenditure are made in francs, of which 25 amount to a pound sterling, it will be sufficient for common purposes of rapid

	carculation	i, to emplo	y the follow	mg rule	•	
Francs.			•			£ sterling.
100 equal to			• •			4
1,000						40
10,000						400
100,000						4,000
1,000,000						40,000

RAILWAY TERMINI IN LONDON.

London and Birmingham, Euston-square, New-road. London and Blackwall, New London-street, City. London, Groydon, Dover, and Brighton, Old Keut Road. Eastern Counties, Shoreditch.

Great Western, Paddington. London and Greenwich, London Bridge, Southwark. Northern and Eastern, Shoreditch. South Western, Niue Elms, Vauxhall.

Piastre—Arabian, 5s. 6d.; Spanish, 3s. 7d. Pistole—Spanish, Barbary, 16s. 9d.; Italy, 15s. 6d.; Sicily, 15s. 4d. Re—Portugal, 27.4d. of 1d.; a Mil-re, 5s. 7d½.

LONDON FIRE BRIGADE, 68, WATLING-STREET.

The following are Stations at which Engines are to be found, Day and Night:-

Ratchiffe, Wellclose-square. Ratchie, Wellelose-Square. Cheapside, 68, Walling-strect. Holborn, 254, Holborn. Oxford-strect, Wells-street. Portman-square, King-street, corner of Buker-street.

Sonthwark Bridge Road, uear Unionstreet.
Westminster, Horseferry-road.
Rotherhithe, Paradise-row
St. Mary Axe, Jeffries-square.
Finsbury, Whitecross-street.

Blackfriars, Farringdon-street. Backtrars, Farringuoisticci. Covent Garden, Chandos-stret. St. Giles's, George-yard, Crown-st. Golden-squire, King-street. Tooley-street, Morgan's-lanc. Shadwell, Schoolhouse-lane.

Waterloo-bridge road, next door to Zion Chapel.

The Floating Engines lie off King'sstairs, Rotherhitbe, and Southwark-hridge.

PENALTIES UNDER THE STAMP ACT.

For acting as an Appraiser without a license, £50.
For every Appraisement written upon paper not duly stamped, £50.
Apprentices' Indentuces to state the real amount of premium in proportion to which the stamp duly is charged, on pecualty of forfeiting double the

tion to which the stamp duty is charged, on penalty of forletting double the amount of premium.

For Attorneys and Solictors acting without having been admitted, £100.—
For acting without certificate, £50.

For drawing a Bill or Promissory Note upon unstamped paper, £50.—For post-dating Bills of Exchange, £100.

For drawing a Check more than ten miles from the place where made payable, £100.—For receiving the same in payment, £20.—For Bankers paying the same, £100.

For setting out wrong amount in Conveyance. On the Attorney, £500, on the nucleaser, £50.

On the purchaser, £50.

For selling Patent Medicines, &c., without a license, £20. Without a

stamp, £10.
For printing a Newspaper without first making affidavit as to the ownership, $\aleph_{\rm C}$, £100. For delaying to entereach publication at the Stamp Office, £100. For printing without stamps, ou each paper issued, £20.

For neglecting or delaying to enter Pamphlets at the Stamp Office, or selling without paying duty when demanded, £20.

For Paurbrokers taking pledges without a licence, £50. For selling Plate without a license, £20. For selling plate without a license, £25. For selling plate without a license, £25. For selling plate without being duly stamped, £50.

For taking possession of the effects of any one deceased, without taking out Letters of Administration, £100.

For giving a Receipt (by which is understood any memorandum for money received) upon mistamped paper, if under £100—£10; if above £100—£20.

For refusing to give a receipt on a stamp, £10. For giving receipt upon a stamp to low for the amount thereon specified, £10. For giving receipt for less than the sum received, £50.

For keeping or employing any Stage Carriage without license, or without plates, or with recalled or improper plates, or using them contrary to the license, £20. For carrying more passengers than authorised by license, for each passenger, £5. For omitting to paint the name of the proprietors, the extreme places from, to, and which such carriages travel, and the number of passengers for which it is licensed, £5. For luggage exoceding the prescribed height on the top of such carriage, £5. height on the top of such carriage, £5.

ABSTRACT OF THE WILLS ACT-[1 Victoria, c. 26].

Operation of the Act.—The Act does not extend to Scotland; neither does it affect the wills of soldiers or sailors on actual service, nor wills made before the commencement of 1838. But all wills, with the exception of those of soldiers or sailors, made after the commencement of 1838, come under the provisions of the Act.

of soldiers or sailors, made after the commencement of 1838, some under the provisions of the Act.

What kind of Property may be bequeathed by Will.—It is lawful for every person to devise, bequeath, or dispose of, by his will executed in the manner directed by the act, all real estate, and all personal estate which he shall be entitled to either at law or in equity, at the time of his death.

[All property may thus be bequeathed by will, "Real estate" extends to manors, advowsons, messuages, lands, tithes, rents, and hereditaments, whether freshold, customary freebold, tenantripht, customary or copyhold, or of any other tenure, and whether corporeal, incorporeal, or personal, and to all future and contingent interests therein. "Personal estate" extends to leasehold estates, and other chattels real, and also to moneys, shares of government, and other funds, securities for money (not heing real estate) dehts, rights, credits, goods, &c. 1

tatos, and other chattels real, and also to inoneys, shares of government, and other funds, securities for money (not heing real estate) debts, rights, credits, goods, &cc.]

How a Will should be made.—A will can only be made in warring: and it must be signed at the foot and end by the testator himself; or, if he is unable to do it, by some persou for him, in his presence, and by his direction; and his testator must either make or acknowledge his signature in the presence of two or more persons, who are to be present at the same time, and who are to sign their names as attesting witnesses in the presence of the testator. No particular form of attestation is necessary.

[The above mode must be observed by all persons, male, or female, in making their wills. If any person is drawing up his will, or having it drawn up for him, without legal assistance, the best mode of expression will be the simplest and plainest that can he used. Care must be taken not to hequeath legacies to attesting witnesses, or even to the wife or husband of an attesting witness, as all legacies so bequeathed are void in law. The object of this enactment seems to be to prevent any will from being disputed or unlified on account of any alleged undue interest on the part of an attesting witness. If, therefore, a testator wishes to give anything to an attesting witness, he must do it in some other way than by a legacy. But creditors and executors can be attesting witnesses.]

Who cannot make a valid Will.—Persons under twenty-one years of age cannot make a valid will. Neither can married women in the lifetime of

their husbands, except where they have property settled on them with a

their husbands, except where they have property settled on them with a power of devising, &c.

What of itself Revokes a Will.—Any man or woman, having made a will, and marrying afterwards, the act of marriage revokes the will, "uuless made in exercise of a power of appointment, when the estate thereby appointed would not in default pass to his or her heir, customary heir, executor or administrator, or the person entitled as his or her next of kin, under the statute of distributions."

the statute of distributions."

How a Will may be Revoked or Altered.—A will can only be revoked by being destroyed, or by the execution of a new will. Alterations must be made in the same way as a will. [Persons making any alterations in their wills must therefore be careful that the alterations are witnessed and signed in the same way as the wills.]

How a Will is to be hereafter Construed.—Wills are to be construed as if made immediately before the death of the testator, unless a contrary intention appears from the terms of a will itself.

A residuary devise shall include the estates bequeathed by lapsed and void devises, unless a contrary intention shall appear.

A general devise of the testator's land shall include copyhold and leasehold, as well as freehold lands, unless a contrary intention shall appear.

A general guft shall include estates over which the testator has a general power of appointment, unless a contrary intention shall appear.

A general gnt shall include estates over which the testator has a general power of appointment, unless a contrary intention shall appear.

A devise without any words of limitation shall appear.

A devise without any words of limitation shall he coustrued to pass the fee, unless a contrary intention shall appear.

The words "die without issue," or "die without leaving issue," shall he construed to mean die without issue living at the death of the person, and not an indelinite failure of his issue, unless a contrary intention shall appear by the will, by reason of such person baving a prior estate tail, or of a preceding gift, being, without any implication arising from such words, a limitation of an estate tail to such person or issue, or otherwise; but this Act shall not extend to cases where such words import if no issue described in a preceding gift shall he born, or if there shall be no issue who shall live to attain the age or otherwise answer the description required for obtaining a vested estate by gilt shall be boin, or if there shall be no issue who shall live to attain the age or otherwise answer the description required for obtaining a vested cstate by a preceding gift to such issue.

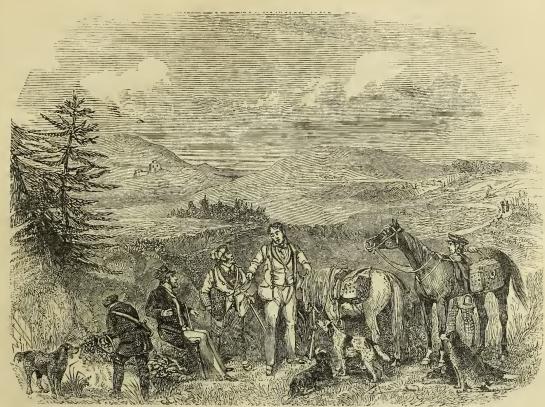
[The preceding abstract gives the main points of this important Act, which tends to simplify the law of wills, and prevent the litigation so often arising from the disposal of property by bequest.]

QUARTER SESSIONS IN THE SEVERAL COUNTIES OF ENGLAND AND WALES.

By the Act I Will. IV., c. 70, it is enacted, that "in the year 1831, and afterwards, the justices of the peace in every county, riding, or division, for which Quarter-Sessions of the Peace by law ought to be held, should hold their general Quarter-Sessions of the Peace in the first whole week after the 11th of October, in the first week after the 28th December, in the first week after the 31st of March, and in the first week after the 41st June."

It having been found that some inconvenience occasionally arose from the time fixed for holding of the Spring Quarter-Sessions interfering with that

appointed for holding the Spring Assizes, an Act was passed 4 and 5 W. IV. c. xlvii. allowing a discretionary power of the Justices of Peace as to the time of holding the Spring Quarter-Sessions, and they are empowered at the preceding Epiphany Sessions to appoint two of their body to alter the day for the Quarter-Sessions, if they shall see occasion, so as not to be earlier than the 7th March, nor later than the 22nd. of April; notice of the day so appointed is to be advertised in such papers as the Justices shall direct.



AUGUST

GROUSE SHOOTING.

GROUSE SHOOTING.

AUGUST the twelfth is the day fixed in the British sportsman's calcudar for the commencement of the pursuit of the grouse, which, in his general estimation, says Captain Lacy, "if not deemed the very fox-hunting of shooting indisputably occupies a very high place, and most deservedly so, whether we consider the extreme heauty elegauce, and gameness of this truly British bird itself; its deep, rich plumage, so charmingly in harmony with the lovely beather it dwells among, whose tender tops it crops for support, and under whose friendly fringed shade it cowers for protection; or whether we turn to its native haunts, whose dreariness it enlivens and ennobles—the isolated majestic beights in some of the most romantic parts of our highly-favoured isle—we are alike induced to regard it with esteem and admiration, Besides, grouse shooting in only the most laborious of all shooting, but is a science in itself."

Grouse shooting in general, and on a subscription were in the statement of the statement

Isle—we are anke induced to regard it with estern and admiration). Besides, grouse shooting is not only the most laborious of all shooting, but is a science in itself."

Grouse shooting in general, and on a subscription moor in particular, is a very different sort of thing in England to what it is in many parts of the Highlands, where the best sport of the kind in the known world is unquestionably to be obtained; "though even," says Captain Lacy, "that varies very materially in different districts; so much so, that it behoves an English shooting party to have better authority than a mere advertisement before they agree to pay a heavy rent for grouse shooting quarters, or 'shootings,' and especially if the intention be to take them on a lease; for, though the hills be represented as abounding with game—the burns and rivers as swarming with trout and salmon, with a plentiful sprinkling of roe, red deer, cocks, and wildfowl, by way of a refreshing change—tho reality is often found to fall not a little short of the glowing description. Moreover, the complaint of late years alleged against the mountain lairds, of not taking sufficient pains to keep a good stock of game on their grounds, is, in general, but too well founded."

All dogs for grouse shooting should, at all times, be particularly steady; not a syllable should be required to be spoken to them, but all done by hand-work, unless the whistle be occasionally used as a signal for them to turn, grouse being the most sensitive and the soonest disturbed of all game. A popular sporting writer says—"There is no department of the chase wherein the gun is used as the instrument of capture that approaches, much less equals, it in the quantity of excitement, and of positive enjoyment it affords its followers. The taway tiger, it is said, once having tasted human blood, thirsts for it evermore, and hereafter is dissatisfied with ignobler prey; the modern shooter, it is known, once having rejoiced in a perfect day's grousing, from that time forward places it highest amon

of Sinddaw, or Helvellyn, of Snowdon, or Cader Idris!"
The red grouse of the principality are notoriously the largest existing. In
the south, good red grouse shooting will be found in the counties of Glamorgan, Carmarthen, and Radnor; in those of Cardigan and Brecon, excellent;
also, in Merioneth and Montgomery, in the north. To those sportsmen from
the midland and southern parts, with whom brevity of time and distance is a
consideration, we would heartily recommend an excursion to Wales, in the
full assurance that they will not be disappointed in their object.

We would recommend the novice never to visit any extensive moors for the purpose of grouse shooting without a companion, or a guide who perfectly understands the nature of the locality to be visited, and the required preparations to be made for it, in the way of dogs, guns, ammunition, and personal appointments, &c., &c. One who does not do thus, often meets with many mortifications and disappointments in his high raised expectations. We have heard of one who, by some recommendation, laving determined to fix his shooting quarters at a village in the precincts of the grousing grounds of the Bishop of Duhlam, was joined by another grouser, equally experienced and intelligent. The following memorandum of the united efforts of both, as we suppose, was found on the return:—"Retired to rest at eight in the evening, rose at half past twelve, and having breakfasted, set off by starlight to our grounds; but, as when we arrived there it was still starlight, we sat down on the heather, flattering ourselves that as soon as it was light, our strength being recruited, we should be the better prepared for the work of destruction we contemplated. A dense fog, however, succeeded the dawn, which hid every object from our sight, although our ears were tantalised not only with the chattering of birds, but with the sound also of many shooters in pursuit of them out the other side of the mountain, less obscured by fog. Their guns, as we, distinctly heard, were in full practice; but we knew too little of the country, and were too tired, to follow them; so we returned to our quarters, purchased a few young grouse (poults we suppose) at a great price, packed up our traps, sent away Ponto by the waggon, and took ourselves off by the coach,—risum teneatis amici." In the detail of red grouse, black grouse, and ptarmigau shooting, which follows, the reader will be presented with many piotures, which bring him into more minute acquaintance with this romantic district. Here Nature appears to wear her sternest features, yet here the sportsman We would recommend the novice never to visit any extensive moors for the

ANGLING.

BARBEL (this and next month, the best), bream, gudgeons, roach, flounders, chub, dace, cels, bleak, minnows, pike, ruffe, and perch, bite freely.

Ant flies may be procured from June till September in their hills: they are never-failing baits for chub, roach, and dace, if you let your hook hang about six iuches from the bottom of the stream.

The great white moth, which can be obtained in the summer evenings in gardens, on trees and shrubs, is a serviceable bait when dibbing for roach in the twilight.

The hawthorn fly makes its appearance on hawthorn trees, when the leaves are beginning to sprout; it is a dark-coloured fly, and is used as a bait for

The honnet fly, which frequents standing grass, is an extremely good bait for chub and dace.

Common flies are, by some anglers, reckoned the best baits for dace and bleak: two or three of them at a time should be put on a No. 10 hook, for dace, and one on a No. 12 hook, for bleak.

HORSE TAX.

oa RIDI:	(G O)	DRAWING	CARRIAGES.

Too Mining on Philatric Committee and											
No.	Each Horse.	No.	Each Horse.								
	£ s. d.		£. s. d.								
1	1 8 9	11	3 3 6								
2	2 7 3	12	3 3 6								
3	2 12 3	13	3 3 9								
4	2 15 0	14	3 3 9								
5	2 15 9	15	3 3 9								
6	2 18 0	16	3 3 9								
7	2 19 9	17	3 4 0								
8	2 19 9	18	3 4 6								
9	3 0 9	19	3 5 0								
10	3 3 6	20	3 6 0								

		ati	S.	a.	
Horses let to hire without post duty, and race-horses, each		1	8	9	
Horses rode by butchers in their trade, each		1	8	9	
Where two only are kept, the second at		0	10	6	
Horses for riding, and not exceeding thirteen hands, each		1	1	0	
One horse, used by a bailiff on a farm		1	5	0	
Other horses, thirteeen hands high, and mules, each.	,	0	10	6	
bucken by home accordingly widden by any one accurring	0	Com	0	fla	22

annual value than £100 is exempt; as are also horses employed by market gardeners in their business.

DUTIES ON CARRIAGES.

No.	Per carriage for private use.	Nο.	Stugecoaches&postchaises.
	£. s. d.		£. s. d.
1	6 0 0	1	5 5 0
2	6 10 0	2	10 10 0
3	7 0 0	3	15 15 0
4	7 10 0	4	21 0 0
5	7 17 6	5	26 5 0
6	8 4 0	6	31 10 0
7	8 10 0	7	36 15 0
8	8 16 0	8	42 0 0
9	9 1 6	9	47 5 0

WITH TWO WHEELS.	£	s.	d.
Carriages with two wheels, each . ,		3 5	0
Ditto, drawn by two or more horses, or mules		4 10	0
For every additional body used on the same carriage		1 11	6
For every additional body	. :	3 3	0

For every additional body.

Carriages let by conchanakers, without horses.

6 0 0

For every carriage with four wheels, being of less diameter than thirty inches each, where drawn by poincs or mules, above twelve and not exceeding thirteen hauds, per annum, £35x.; if with less than four wheels, and the ponies not exceeding twelve hands, and not let for hire, exempt. For every carriage with four wheels, drawn by one horse and no more, per annum, £410s. Carriages with less than four wheels, drawn by one horse, without any metallic springs, and constructed and marked as described by Act 3 and 4, George IV., o. 39, and not exceeding £21 in value; also common stage carts, constructed for the carriage of goods, and occasionally used for riding, are exempt.

DOGS.

For every greyhound

For every hound, pointer, setting dog, spaniel, terrier, or luccher,
and for every dog, where two or more are kept, of whatever
denomination they may be (except greyhounds).

For every other dog, where one only is kept
Compounding a pack of hounds 0 0 $\begin{array}{cccc} 0 & 11 & 0 \\ 0 & 8 & 0 \\ 36 & 0 & 0 \end{array}$

Farmers with farms under £100 value, and shepherds, are exempt from dogs kept for the care of the slicep.

PROBATES OF WILLS, AND LETTERS OF ADMINISTRATION.

Ibove the va	due c	of	And und	er	- 11	ith a V	Vill.	- '/	Vithout a V	Vill.
£			£			£	s.			
20			50		0	0	0		10s.	
20			100			0.1	10			
50			100			()	0	^	£1	
100			200		e	2	0		3	
200			300			5	()		8	
500			450			8	0		11	
450			(00)			11	()		15	
600			800			15	0		22	
800			1000			2:3	0		30	
1000			1500			30	()		45	
1500		-	2000			40	0		60	
2000			3600			50	0		75	
3000			4000			60	0		90	
4000			5000			80	0		120	
5000			6000			100	0		150	
6000			7000			120	0		150	
7000			8000			110	6		210	
8000			9000			160	0		210	
9000			10000			180	0		270	

The scale continues to increase up to £1,000,000.

DUTIES ON LEGACIES.

Of the value of £20, or upwards, out of Personal Estate, or charged upon Real Estate, &c.; and upon every share of Residue—To a Child, or Parent, ar my lineal descendant, or ancestor of the decased, £1 per cent.—To a Brother, or Sister, or their descendants, £5 per cent.—To an Uncle, or Amel, or their descendants, £5 per cent.—To a Great Amol, or their descendants, £6 per cent.—To a direct buck, or Great Amol, or their descendants, £6 per cent.—To any other Relation or Stranger in blood, £10 per cent.—Legacy to Husband or Wife exempt.

If the decased died prior to the 5-h of April, 1805, the duty only attaches on Personal Estates, and by a lower scale.

RECEIPTS.

					5.	d.			đ.
For	£5	and	under		0	3	For £200 and under £300.	4	0
	10			20	0	6	300 500 .	5	0
	20			50	1	0	500 1000 .	7	6
	50			100	1	6	1000 and upwards .	10	0
	100			000	0	C	1 6 .11 . 6 . 11 1		

N.B.-Persons receiving the money are compelled to pay the duty.

INTEREST TABLE AT FIVE PER CENT.

Days.	£100	£70	£60	#50	£40	£30	£20	£10	#9	# 8	±7	# €6	#5	#1	#3	£2	£1
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s, d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	d.	d.	d.
100	27 5 24 8	19 2 17 3	16 5 14 10	13 8 12 4	$\begin{array}{c c} 11 & 0 \\ 9 & 10 \end{array}$	8 3 7 5	5 6 4 11	2 9 2 6	$\begin{bmatrix} 2 & 6 \\ 2 & 3 \end{bmatrix}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 11 1 9	$\begin{array}{c c} 1 & 8 \\ 1 & 6 \end{array}$	1 4	$\begin{bmatrix} 1 & 1 \\ 1 & 0 \end{bmatrix}$	10	7 6	3
80	21 11	15 4	13 2	11 0	8 9	6 7	4 5	2 2	1 11	1 9	1 6	1 4	1 1	0 11	8	5	3
70 60	19 2 16 5	13 5 11 6	11 6 9 10	8 3	6 7	5 9 4 11	3 10	1 11 1 8	1 9	1 6	1 2	$\begin{array}{c c} 1 & 2 \\ 1 & 0 \end{array}$	0 10	0 9	6	4	2
50 40	13 8	9 7 8	8 2 6 7	6 10 5 6	5 6 4 5	3 3	2 6	1 4	1 3	$\begin{bmatrix} 1 & 1 \\ 0 & 11 \end{bmatrix}$	0 11	0 10	0 8	0 7	5	3	2
30	8 3	5 9	4 11	4 1	3 3	2 6	1 8	0 10	0 9	0 8	0 7	0 6	0 5	0 4	3	2	i
20	5 6 2 9	3 10	3 3	2 9	2 2	0 10	0 7	$\begin{bmatrix} 0 & 7 \\ 0 & 3 \end{bmatrix}$	0 6	0 5	$\begin{bmatrix} 0 & 5 \\ 0 & 2 \end{bmatrix}$	$\begin{bmatrix} 0 & 4 \\ 0 & 2 \end{bmatrix}$	$\begin{bmatrix} 0 & 3 \\ 0 & 2 \end{bmatrix}$	$\begin{array}{ccc} 0 & 3 \\ 0 & 1 \end{array}$	2	2	1

A TABLE OF EXPENSES, INCOME, OR WAGES.

Showing what any Sum, from One Pound to One Hundred Pounds per annum, is per Calendar Month, Week, or Day.

Per Year. Per Month	Per Week.	Per Day.	Per Year.	Per Mouth.	Per Week.	Per Day.
Per Year. Per Month ### s. d. ### \$1.00 0 is 0 1 8 1 100 0 0 2 6 2 0 0 0 3 4 2 2 0 0 0 3 4 2 2 0 0 0 5 0 3 3 0 0 0 5 0 3 3 0 0 0 5 5 3 3 10 0 0 5 5 3 3 10 0 0 6 8 4 4 0 0 0 6 8 4 4 0 0 0 7 0 4 10 0 0 7 6 5 0 0 0 8 9 5 10 0 0 9 2 6 0 0 0 0 10 0 6 6 0 0 0 10 0 6 6 0 0 0 10 6 6 10 0 0 0 12 6 8 0 0 0 0 13 4 8 8 0 0 0 13 4 8 8 0 0 0 14 2 9 0 0 0 0 15 9 9 8 0 0 15 9 10 0 0 0 16 8	Per Week. ### 8. d. f. 0 0 4 2 0 0 7 0 0 0 9 1 0 0 9 3 0 11 2 0 1 1 3 0 1 2 2 0 1 4 1 0 1 6 2 0 1 7 2 0 1 8 3 0 11 1 0 0 2 1 0 0 2 1 2 0 2 8 1 0 2 10 2 0 3 1 0 0 3 3 1 0 3 3 7 2 0 3 10 0	Per Duy. s. d. f. 0 0 3 0 1 0 0 1 1 0 1 2 0 1 3 0 2 0 0 2 2 1 0 2 2 3 0 3 0 0 3 1 0 3 2 0 4 1 0 4 2 0 4 1 0 4 2 0 4 3 0 5 0 0 5 1 0 5 2 0 6 0 0 6 1 0 6 2	Per Year. £ s. d. 11 0 0 1 11 11 0 12 0 0 13 13 0 0 13 13 0 14 14 0 15 15 0 16 16 0 17 0 0 17 17 0 18 0 0 18 18 0 19 0 0 20 0 0 40 0 0 50 0 0 90 0 0 10 0 0 10 0 0 10 0 0	Per Mouth. £ s. d 1 s 0 18 4 0 19 3 1 0 0 0 1 1 0 0 1 1 8 1 2 9 1 3 4 6 1 5 0 1 6 8 1 8 0 1 11 6 1 11 8 1 13 4 2 10 0 3 6 8 4 3 4 5 0 0 5 16 8 6 13 4 7 10 0 8 6 8	Per Week, £ s. d. f. 0 4 3 0 0 4 5 1 0 4 7 2 0 4 10 0 0 5 0 0 0 5 3 0 0 5 4 2 0 5 9 0 0 6 0 2 0 6 0 2 0 6 6 2 0 6 6 2 0 6 10 2 0 7 3 0 0 7 8 0 0 11 4 2 0 19 3 0 1 3 0 3 1 6 11 0 1 10 9 0 1 14 7 7 1 18 5 2	Per Day. s. 'd. f. 0 7 1 0 7 2 0 8 0 0 8 1 0 8 2 0 9 0 0 9 1 0 9 9 3 0 10 0 0 0 10 0 0 10 1 0 10 2 0 11 0 1 1 3 1 0 2 1 1 1 1 2 2 1 1 7 3 2 2 1 2 9 0 0 3 3 2 3 10 0 4 4 2 4 11 0 5 5 3



SEPTEMBER

GOLFING.

GOLFING.

GOLFING is played with a club and ball. The club is from three to four feet long, according to the height and length of arm of the player. It is seen curved and massive towards the head, to give it scope, weight, and strength. This head, or knob, is formed, for strength, from some very tough wood, as beech: and as itcurves and proceeds may made, it is planed off, so as to adapt itself to the handle, to which it is very firmly glued, and tightly corded down. A want of due attention to these particulars, in the manufacturing it, will render the head liable to split and ify off by either a very hard or indirect stroke. The face of the club is farther secured by a piece of hard bone, and occasionally of ivory, at least half an inch thick. It is also loaded with from four to six ounces of lead, according to the will of the player. The handle is usually bound with cord, list, or velvet, at the pleasure of the owner. It is, however, to be remembered, that the form of the club, the materials of which it is made, and the numbers taken to the golfing ground, vary considerably, according to circumstances and to the babits of the players, the attendant cad or caddy having usually many varieties to suit every peculiarity under which the ball may be placed; for, in many clubs, it can never be touched by the hand until holed.

until holed.

The golf ball is about the size of an egg, and is made very firm. It is composed of stout leather, which, having been previously soaked in boiling water, allows of its being first very firmly sewed, and then turned inside out, leaving a small opening only by which it is very forcibly stuffed with feathers. The leather being yet wet, it contracts into a ball of the dimensions stated, but nearly as circular as that used in the game of cricket. It is subsequently painted over with several coats of white paint, in doing which it is requisite that the white lead used should be pure, and exceedingly well ground down; as well as that each coat laid on should become perfectly dry and hard before another is applied. The game is played by two or more persons, so that there be an equal number on each side; but only two balls are used, one belonging to each party, each party also striking in turn; but if the last striker does not drive his ball so far on as that of his opponent, one of his party must then strike one, or perhaps two, more; and the game is thus marked, by calling out one, two, or three more, as the case may be. If more than two are playing, the same person does not strike twice in succession; a miss is counted one. The party who puts the ball into the hole at the fewest strokes wins the game.

game,

The grounds used for this sport vary in different parts of Scotland. Some are nearly square, in which case a hole is made at each corner; but if it be irregular in figure, it is not uncommon to place one at each angle, so that the party still traverse the whole surface, and finish at the spot from whence he started; a quarter of a mile, more or less, being usually allowed between each hole. Besides the club described, as already stated, there are others, usually carried by an attendant for each party. These are called, by way of distinction, putters, of which, however, there are several sorts; one heing short, suifly

and heavy, similar in figure, but larger in the head, for making a steady and direct stroke when near the hole. Another, formed of iron instead of wood, is used for making a hit at a ball when very unfavourably placed; as in a rut, where the common club would be in danger of breaking. When a ball falls into a hole or rut, from which it is impossible to strike it out, the party is allowed, by a special agreement in some clubs, to take it out with his hand, and throw it up in a line with the spot, which is accounted as one, and he then strikes from where it chances to rest; but, as already observed, this indulgence does not extend to every golfing society.

PARTRIDGE SHOOTING.

PARTRIDGE SHOOTING.

PARTRIDGE SHOOTING, the reader need scarcely be told, commences with the present month, and that literally; for, as Colonel Hawker observes, "Most young sportsmen, and many old ones, faucy that nothing great can he done on the first day, without they go out as soon as they can see to distinguish a bird from a dog." This, for several reasons, the Colonel considers to be the very worst method that can be adopted; and much game as the Colonel has seen killed in a September day, he does not recollect one solitary instance of anything extraordinary being done very early in the morning, though many persons talk of killing ten and even twenty brace before breakfast. Colonel Hawker briefly states the great object in partridge shooting is, first to have good markers judiciously placed, and then to disperse the birds; the best way to do which, is to head your dogs, by taking an extensive cirole. The second is, to make no more noise than what cannot absolutely be avoided, by doing as much by signal and whistling, and as little by hallooing, as possible. Thirdly, go first on hills to find, and drive down from them the hirds, and then in vales to kill them Fourbly, when distressed for partridges in a scarce country; at the end of the season, take a horse, and gallop from one turnip-field to another, instead of regularly slaving after inaccessible coveys. After a storm, as soon as the ground is dry, or the next day, birds are frequently as much on the listen as on the watch; and this is why, towards the end of the season, we sometimes do best in boisterous weather.

—Instructions to Young Sportsmen, 9th Edit., 1844.

A gamekeeper of Mr. D. Grosvenor, in Dovestshire, hearing a partridge utter a cry of distress, was attracted by the sound into a piece of oats, when the bird ran round him very much agitated; upon his looking among the body, when, to his astonishment, two young partridges ran from their horrid prison, and joined their mother; two others were found in the snake's stomach quite dead.

ANGLING

ANGLING.
ROACH, gudgeons, dace, chub, eels, tench, bleak, minnows, barbel, bream, ruffe, pikc, trout, perch, and grayling, are in season.

LIFE ASSURANCE TABLES.

THE existing British offices are about eighty in number, most of them of recent origin. The oldest is the Amicable, of London, established on the mutual principle in 1706. At the time when it was set up, to calculations as to life existed; and the conductors were accordingly obliged for many years to proceed in a great measure at random, oharging the same premiums or annual payments for all agea under 45! The other offices, dating from the last century, are the following:—The Sun, 1710, proprietary; the Union, 1714, mixed; the London, 1721, mixed; the Royal Exchange, 1722, proprietary; the Equitable, 1762, mutual; the Westminster, 1792, proprietary; the Pelican, 1797, proprietary; and the Palladium, 1797, mixed. Ten were established during the first ten years of the present century:—The Globe, 1803, proprietary; the Londou Life-Association, 1806, mutual; the Provident, 1806, mixed; the Rock, 1806, mixed; the West of England, 1807, mixed; the Hope, 1807, mixed; the England, 1807, mixed; and the Norwich Union, 1808, mutual. The rates charged by these offices are very various, but, in most cases, the charges for life-assurance are considerably within the verge of safety. Hence companies generally divide good profits, and societies realise large surplusages, which fall to be divided among the insurers, in the form of additions to the sums stated in their policies. The acales of the various offices may be blassed in three grades or sets, of each of which we give a few examples.

in three grades or sets, of each of which we give a few examples.

The Economic is a proprietary office, giving three-fourths of the surplusages or profits to the assured. It was established in 1823. In 1834, a bonus, amounting to 16 per ornt. on the premiums paid, was deblared; and in 1839 there was a second bonus, amounting to 31 per cent. on the premiums paid during the preceding five years. The Nowish Union, in 1816, gave a bonus of 20 per cent. on the amount of premiums deposited by the members insured previous to June, 1815; a second bonus of 24 per cent in 1823; and a third of 25 per cent. in 1830. The Guardian is a proprietary office, in which a proportion of profits not stated is given to the assured. Established in 1821, its first division of profits was made in 1828, and a second in 1835. At each period, the bonuses averaged rather more than 28 per cent. on the amount of the premiums paid thereon during the preceding seven years. The Scottish Widows' Fund and Scottish Equitable have both declared large surplusages. At the division of the first of these highly prosperous societies, in 1825, the policies opened between 1815 (the commencement of the society) and 1820, were declared entitled to 2 per cent. (or each year of their currency. In 1832, the same policies received a further addition of 3½ per cent.; and at the same time those opened between 1815 (the commencement of the society) and 1820, were declared entitled to 2 per cent per annum. In 1839, a retrospective bonus of 2 per cent. per annum was declared on all policies. The effect of these additions is, that policies for £1000, opened before 1820, at wharever age, will amount in 1845 to £1809 8s. 7d. In 1841, the Scottish Equitable made its first division of of surplusages, amounting to 2 per cent. er annum on all policies of above five years' standing; so that the beirs of a person who insured £500 in 1831 (the first year of the society), would now; in the event of his decease, realise £600, and so on in proportion.

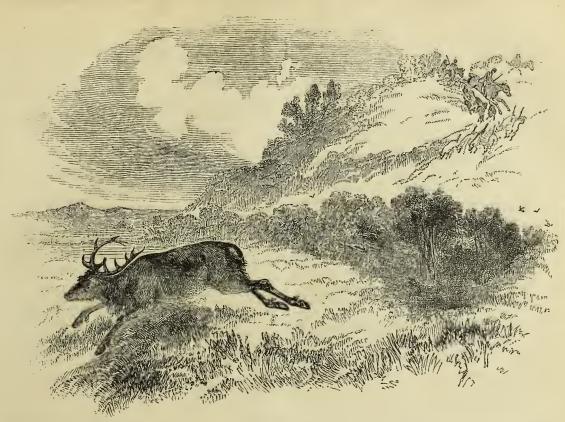
time of High Water at London, which will be found in the Calendar given for the day required.

GOVERNMENT ANNUITIES.

The tables on which the government annuities are granted have been formed, as might be expected, on the soundest principles, and are entitled to the greatest respect. They relate to four kinds of benefit—deferred annuities upon the continuance of single lives, immediate anuuties upon the outnutance of single lives, deferred annuities to continue for a certain term of years, and immediate anuuties to continue for a certain term of years. We give one specimen, namely, the terms of an annuity of £20, payable after twenty years from the time of its purchase:—

	20	25	30	35	40	45	áð	55	Total Premiums between 20 and 60.
Aberdeen Assurance Company Standard Life Assurance Company, Edinburgh Scottish Provident Institution (mutual)	£1 14 7 1 12 10 1 15 8	£1 18 1 1 17 6 1 18 0	£2 2 0 2 2 11 2 1 6	£2 7 3 2 9 1 2 6 10	£2 14 5 2 17 2 2 14 9	£3 4 6 3 6 5 3 5 9	£3 19 8 3 19 8 4 1 7	£4 19 0 5 0 0 5 1 11	£129 7 9
	S	CALE OF	MIDDLE	GRADE.					
	20	25	30	35	40	45	50	55	Total Piemi- ums between 20 and 60.
Economic Company, London Norwich Union Society Guardian (mixed) Scot. Widows' Fund Scot. Equit. Societies	£1 14 7 · 1 19 6 2 1 0 2 1 6	£1 19 0 2 3 8 2 5 4 2 5 10	£2 4 3 2 8 10 2 10 7 2 11 1	£2 10 11 2 14 10 2 17 0 2 17 6	£2 19 9 3 2 0 3 5 0 3 5 6	£3 11 9 3 11 0 3 14 11 3 15 6	£4 8 0 4 6 0 4 8 0 4 8 4	£5 10 3 5 5 3 5 4 8 5 4 2	£141 12 6 142 10 4 146 3 3 146 12 5
		SCALE OF	HIGH G	RADE.					
	20	25	30	35	40	45	50	55	Total Premiums be ween 20 and 60.
Globe Company Sun Company (mixed) Amicable Society (London)	£2·3 7 1 16 11 2 0 6	£2 8 1 2 2 6 2 5 6	£2 13 5 2 9 2 2 10 6	£2 19 10 2 16 8 2 17 0	£3 7 11 3 6 6 3 5 0	£3 17 11 3 17 8 3 18 6	£4 10 8 4 14 2 4 16 6	£5 6 4 5 19 11 5 18 0	£151 5 2 154 16 6 155 3 6
Showing the difference of Time of High Water between Showing the difference of Time of High Water between Showing the Showing the Showing Showing the Showing Showing the Showing Show	veen London	. — ^{н.}	M. Kingst	ABLE, orts of the U	ur. su	H. M. b 2 54 H	l as a few po Rye Harbour Scarborough		pposite coast . — 3 40 . add 2 9
Antwerp		. add 0 . sub 2 . add 4 . — 3 . sub 0	54 Leith 29 Lerwic 26 Liverp 49 Marga	k Harbour ool te d Heaven	su 	- 0 16 S b 4 6 S - 2 44 S - 2 2 S d 3 33 S b 0 38 S	Scilly Island Channon Mo Cligo Bay Couthampton Couthend and purn Point, tt. Ives	s uth	$\begin{array}{ccccc} \cdot & -2 & 24 \\ \cdot & -1 & 44 \\ \cdot & -3 & 53 \\ \cdot & \text{sub } 3 & 26 \end{array}$
Brighton . sub 2 28 Galway Bristol . add 5 10 Gravelines Calais . sub 2 36 Greenock Cape Clear . add 1 54 Guernsey Cardigan Bar . — 4 39 Hartlepool Carmarthen Bay . — 3 52 Harve de 6	Pier .	. add 1 . — 2 . — 2 . — 4	49 Mount 26 Newha 41 Newpo 24 New S 24 Orford	s Bay ven ort (Isle of V horeham ness	Vight) -	- 2 34 S - 2 15 S - 6 10 S - 2 17 T - 3 36 T - 1 56 T	t Malo . tromness underland ay Bar exel Road orbay		- 3 34 - sub 5 6 - add 0 54 - sub 0 1 - 5 6 - add 3 54
Cherbourg -5 21 Heligoland Cork Harbour -2 24 Helleveot Cowes sub 3 21 Hollyhead Cromarty -2 21 Hull Cuxhaven -1 6 Hythe Dartmouth add 3 54 Ilfracombe	Sluys Harbour	. — 3 . add 0 . sub 3 . add 3 . sub 3	6 Pembr 9 Plymor 41 Port G 54 Port P 21 Portsm	oke Dockya uth Dockya lasgow atrick outh Harbo v Harbour	our -	- 3 27 W - 2 41 W - 3 26 W - 2 26 W - 2 56 W	ynemouth F Vaterford Vells Harbou Vest Scheldt Vhitby Vigton Bay	ır .	. — 0 44 . — 3 4 . — 3 54 . sub 1 31 . add 1 24 . sub 3 26
Donegal Bar 2 59 Jersey (St. To find the time of High Water at either of the	Albyn) .	4	4 Ramsg	ate Harbou	r	- 2 46 Y	armouth Ro		. — 5 35

SCALE OF LOW GRADE:



OCTOBER.

HUNTING THE STAG.

HUNTING THE STAG.

THE accompanying sketch is to illustrate the cheering scene described by Somerville in his peom of "The Chase"—Stag-hunting is little known to our metropolitan sportsmen, hut as connected with the mimio scene of hunting, such as the Queen's and one or two others. Where it is followed in the wild natural state, according with the habit of the animal and the scenery congenial to it, it is at once noble and cheering, full of daring exploit and courage; and it is the last link of the primitive chase brought down by our forefathers. The deer has suffered no mutilation; its antlers show him to be a stag of full head, therefore arrived at maturity; and from the determined manner of his going, he is likely to lead his followers "through wood and brake, o er moss and moor," a pretty good chevy. There are few hunting establishments now such as this describes, where the animal is drawn for and found in his wild state. One reason may he that they are not numerous enough to afford sport, the forest and wild districts no longer being so extensive as formerly; and we have lost the real stag hound, which, of course, robs it of much of its real character. But it is a noble sport, full of mimic war and exhilarating seenes.

The following poetical sketch of the Hunted Stag is very beautiful:-

What sounds are on the mountain hlast? Like bullet from the arbalast, Was it the hunted quarry past Right up Ben-ledi's side? So near, so rapidly, he dash'd, Yon lichen'd bough has scarcely plash'd Into the torrent's tide. Ay!—the good hound may bay heneath The hunter wind his horn; The hunter wind his horn;

He dared ye through the flooded Teith
As a warrior in his scorn!

Dash the red rowel in the steed,

Spur, laggards, while ye may!

St. Hubert's staff to a stripling reed,
He dies no death to-cay!

"Forward!" nay, waste not idle breath,
Gallants ye win no greenwood wreath;
His antlers dance ahove the heath,
Like chieftain's plumed helm: His antlers dance above the heath,
Like chieftain's plumed helm;
Right onward for the western peak,
Where breaks the sky in one white streak,
See, Isabel, in bold relief,
To Fancy's eye, Glenartney's chief,
Guarding his ancient realm.
So motionless, so noiseless there,
His foot on rock, his head in air,
Like sculptor's breathing stone!
Then, snorting from the rapid race,
Smith the free air a moment's space,
Glares grimly on the baffled chase, Glares grimly on the baffled chase, And seeks the covert lone.

Hunting has been a favourite sport in Britain for many centuries. Dyonisius (B.C. 50) tells us that the North Britons lived, in great part, upon

the food they prooured by hunting. Strabo states that the dogs hred in Britain were highly esteemed on the Continent, on account of their excellent qualities for hunting; and Cæsar tells us that venison constituted a great portion of the food of the Britons, who did not eat hares. Hunting was also in ancient timesa royal and noble sport: Alfred the Great hunted at twelve years of age; Athelstan, Edward the Confessor, Harold, William the Conqueror, William Rufus, and John were all good huntsmen; Edward II reduced hunting to a science, and established rules for its practice; Henry IV appointed a master of the game; Edward III. hunted with sixty couples of stag-bounds; Elizabeth was a famous huntswoman; and James I, prefer ed bunting to hawking or shooting. The hishops and abbots of the middle ages bunted with great state. Ladies also joined in the chase from the earliest times; and a lady's hunting-dress in the fifteenth century scarcely differed from the riding habit hunting-dress in the fifteenth century scarcely differed from the riding habit of the present day. Even the citizens of London anciently had their staghunt. In short, in former times, hunting was almost the sole husiness of life among the English squires; and though their tastes are now much varied, this original pastime, in all its forms, continues to he eagerly followed.

Stag-hunting was formerly very perilous, because, when the stag turned to hay, the ancient hunter went in upon, and killed or disabled, the desperate stag. At certain times of the year, this was deemed dangerous, a wound from the stag's horn being considered poisonous, and more to he feared than one from the tusks of the hoar: hence,—

"If thou he hurt with hart, it brings thee to thy hier, But harber's hand will hoar's hurt heal, thereof thon need'st not fear." SIR WALTER SCOTT.

PHEASANT SHOOTING.

On the 1st of October, that beautiful hird, the Pheasant, hecomes a legitimate

On the 1st of October, that beautiful hird, the Pheasant, hecomes a legitimate object of pursuit, though many persons postpone the commencement of pheasant sbooting till November, and wisely so, since these birds, generally speaking, are not sufficiently grown by the first-named period. The pheasant is common in almost all the southern parts of the old Continent, whence it was originally introduced into this country; but, in America, the true pheasant is not known.

The pheasant is a bird of slow flight, presenting a large mark, and is easily killed by the experienced sportsman; but we are doubtful whether the tyro does not stand a better chance when a twiddling snipe rises before him. The tremendous bustle and whizzing which a pheasant makes in getting on the wing, so agitates the inexperienced shooter, that be not only pulls the trigger too soon, but generally without taking aim, and has to endure the mortification of seeing the hird fly away unthurt. A cock pheasant, when pushed from a hush or thicket, generally rises perpendicularly, till he has cleared every obstacle, before he goes off horizontally; the moment for shooting is when he assumes the horizontal direction; if the bird be fired at while it is rising, nineteen times out of twenty, the shot will he thrown helow the pheasant. The hen pheasant, when pushed, seldom rises so high as the oock, or yet takes so long a flight. oock, or yet takes so long a flight.

ANGLING.

TENCH, gudgeons, roach, chnh, dace, minnows, bleak, pike, trout, and grayling, are in season; trolling or bottom fishing for chuh and roach may be successful; fly-fishing is generally over.

LIBRARY

AN ANALYTICAL ABSTRACT OF AN ACT FOR THE FURTHER AMENDMENT OF THE LAWS RELATING TO THE POOR IN ENGLAND. 7 & 8 VICTORIÆ, CAP. 101.

Section 2. Empowers one justice of the peace to act against putative father on application of mother of hastard child.

3. Empowers the justices at petty sessions to enforce payment from father of hastard child to the mother, or whoever has custody of the same.

4. Applicationa for justices' order to he made within forty days from summons, and costs to be paid as justices shall see fit; and gives appeal to quarter sessions for the putative father.

5. Orders money under the order to be paid to the mother, or to a person appointed by the justices; and that order shall expire when child has attained thriteen years of age, or if the mother marries.

6. The mother is punishable for neglect or desertion of her child. 5 Geo. IV. o. 83, referred to.

IV., o. 83, referred to.

7. Officers of parishes or unions are not to receive money under the order, or to interfere in any respect. This section further prescribes the proceedings to be taken against the putative father in case of death or incapacity of the mother.

8. Fixes the penalties for promoting marriage of a mother of a bastard improperly; for misapplying monies received under this act; or for maltreating a bastard child.

9. Existing orders at the time of passing of this act are not to be affected; but no order made before 14th of August, 1834, shall remain valid after 1st

January, 1849.

10. Orders made by justices acting in two adjoining counties shall be valid, although not made in the county in which the parish is situate.

11. Clerks to justices annually must make a return of summonses, orders,

11. Clerks to justices annually must make a return of summonses, orders, &c., to the olerks of the peace, who shall transmit copies thereof to the Secretary of State, with lists of appeals.

12. The Poor-law Commissioners are to prescribe the duties of poor apprentices, and masters neglecting to fulfil them liable to penalty not exceeding 20t; and in future the hoard of guardians are to hind poor children apprentices instead of the overseers.

13. By this olause compulsory apprenticeship is aholished; repealing 43 Eliz. c. 2; and 8 & 9 Wm. III. c. 3.

14. Repeals so much of 4 & 5 Wm. IV., o. 76, as relates to the number of votes of owners and rate-papers; also 58 Geo. III, o. 59, to the like extent. And enacts that owners of property and rate-papers to vote according to the

- And enacts that owners of property and rate-payers to vote according to the scale therein set forth.
 - 15. Contains the regulations as to votes of owners and of proxies.16. Provides that so much of 4 & 5 Wm. IV, as relates to not voting shall

extend only to poor-rates.

17. The annual election of guardians shall take place within forty days

after the 25th of March in every year.

18. The number of guardians may be altered with reference to popula-

tion, &c. 19. Parishes may be divided into wards, whose population is more than

19. Parishes may be divided into wards, whose population is more than 20,000, by last census.
20. Regulates the qualifications of guardians in wards.
21. Restricts voting in wards, and limits number of votes in certain cases.
22. Forhids separate overseers for townships not hitherto possessing them.
23. Declares the orders of the Poor-law Commissioners valid, notwithstanding the separate appointment of overseers.
24. Justices who reside in extra-parochial places or parishes within unions are to be ex-officio guardians of such parishes.
25. Provides that the relief of married women, whose hushands are at sea, or in custody, or in a lunatic asylum, &c., shall be subject to the same conditions as if they were widows.
26. Gives relief to widows in certain cases, with a proviso.
27. Expenses incurred for insane paupers may be levied off their estates where considerable.

27. Expenses incurred for instance paquers may be review on that examples where considerable.

28. Guardians under local acts to have powers with respect to instance poor.

29. Guardians to apply money raised for emigration, according to Act

4 and 5 Wm. IV, c. 76.

30. Cost of obtaining site of workhouses in the metropolitan police district,

to be charged on the poor-rates.

31 Provides for the funerals of paupers.

13 Provides for the funerals of paupers.

32 Poor-law Commissioners may combine parishes and unions into districts and the cocunts; and further prescribes the election of district auditors, and their powers and duties.

33. The rate-book, &co., must be made up seven days before the audit day, under a penalty of 40s.; and due notice of time and place of audit shall be posted up by overseer, under penalty of 40s.; and the like penalty for refusing inspection of hooks by rate-payers.

34. Balances found hefore the passing of this Act may be discharged.

35. Certiorari allowed for auditors' allowances or disallowances.

36. Persons aggrieved may apply to the Poor-law Commissioners upon aurcharge, &c., who may issue orders thereupon and determine the question.

37. Takes away the powers of justices to audit; existing district auditors

may nevertheless ha retained, with a proviso for the separating and uniting of parisbes.

parisitions.

38. Accounts may be rendered half-yearly if Commissioners think proper.

39. Relates to the taxation and allowance of law hills.

40. Parishes and unions may, within certain limits, be combined into school districts.

41. Districts for providing asylums for houseless poor may be formed in the towns specified in Schedule (B).

42. Regulates the constitution of the district boards for schools and

asylums.

43. Defines the powers and duties of district boards.

44. Gives similar powers to district board for purchasing and hire of land for huilding school or asylum; and all sums to he raised for providing schools or asylums not to exceed one-fifth part of the average annual rates.

45. Empowers district board to bold property of the district as a corporation

ration

ration.

46. Relates to the payment of contributions to district boards.

47. Arranges for the distribution of charges for schools.

48. In like manner the distribution of charges for asylums.

49. Directs the appointment of auditors for district hoards and the plan of their accounts, subject to direction of commissioners.

50. Empowers guardisms to visit and inspect asylums.

51. Permits children to he sent to district schools from parishes and unions not combined, but not distant more than twenty miles.

52. Repeals the Acts 7 Geo, III. c. 39 and 2 Geo, III. c. 22.

53. Particularises the class of destitute poor to be relieved in such asylum; refers to 5 Geo. IV. o. 83; directs the mode of admission into the asylum; and prescribes regulations with respect to poor persons admitted into such asylums. asylums.
54. Enumerates the liabilities of persons relieved in such asylums, and cites

the 55 Geo. III. c. 137.

55. Inflicts the penalty for returning after removal, according to the vagrant

act: 5 Geo. IV., c. 83,
56. Declares the workhouse to be situate in every parish of an union, &c.
57. Orders the committal of offenders in workhouses to the gaol of the place
to which the offenders helong: and refers to 27 Geo. II. c. 3.
58. Provides for the punishment of persons in workhouses for misconduct,

58. Provides for the punishment of persons in workhouses for misconduct, by committal to gaol.
59. Gives power to guardians to order certain civil and criminal proceedings to be paid out of poor-rates.
60. Expences of jury lists, 6 Geo. IV., c. 50, and houndaries of parishes may be paid out of poor-rates.
61. Collectors appointed by guardians may be appointed to perform the duties of assistant overseers, 2 and 3 Vict., c. 84, and 5 Wm. IV., c. 76. 59 Geo. III., c. 12 referred, to.
62. Poor law Commissioners, on application of board of guardians, may divert appointment of axil collector of poor-rates.

62. Poor law Commissioners, on application of board of guardians, may direct appointment of paid collector of poor-rates.
63. Penalty not exceeding £20 on overseers neglecting to obtain a supply of funds for the relief of the poor.
64. Directs in what manner guardians under local acts shall conduct their proceedings: that parishes under local acts, with a population exceeding 20 000, are not to be united without consent of guardians, and what exceptions are to be made as to vagrant and audit districts.
65. Parishes, with a population exceeding 20,000 under local acts, having adopted the provisions of 1 and 2 Win. IV., c. 60, and parishes in the metropolitan district having auditors, not to be included in any district for audit of accounts.

66. Poor-law Commissioners may separate parishes from unions, or add parishes to unions, without the consent of the guardians of the union. 67. Repeals the 55 Geo. III., c. I37, s. 7, as to notices of contracts for sup-

67. Repeats the 35 Geo. 111, c. 137, s. 7, as to notices of contracts for supplying workhouses.
68. Clerks and officers may conduct proceedings before justices at petty accessons on behalf of hoards of guardisns, although not certified attornies.
69. Guardisns, &c., may make a certain certificate, which may be received in evidence in courts of justice, (and herein the form is given of this certificate).

70. Justices at petty sessions, or out of sessions, may summon witnesses,

and compel them to attend and give evidence.

71. Rules, &c., printed by the printer authorised by her Majesty to be received in evidence.

72. Evidence in legal proceedings of the transmission of the commissioners, their rules, &o.

ers, their rules, &c., for workhouses to be good, although not enrolled according to 9 Geo. II., c. 36.
74. Construction of act 5 & 6 Vict. c. 57,
75. Act limited to England and Wales
76. When act to operate.

RIGHT OF VOTING.

COUNTIES. FRERHOLDERS.-Of inheritance of the yearly value of 40s. ahove rents and charges.

I FREHOLDERS.—Or inheritance of the yearly value of 40s. ahove rents and charges.
For life or lives of the yearly value of £10. above rents and charges, occupied by such freeholders; or, although not occupied, which would have entitled them to vote on the 7th of June, 1832; or acquired after that time by marriage, devise, or by promotion to a henefice or office.

Freeholds for life may be acquired in right of a henefice or an office—as clergymen, parish clerks, dissenting ministers, &c., with salaries derived from lands, the freehold of which is in the voter, or in other parties subject to a trust, in writing, entitling the voter to receive the salary either for life, or for an indefinite period: they may also arise from tithes, rent-charges, &c. 2. COPTHOLDERS.—For life or larger estate of copyhold, or any other tenure except freebold, of the yearly value of £10 above rents and charges.

3. Leasholders.—Lessee of £10, clear yearly value, ahove rents and charges, for not less than sixty years, occupied or not.

Lessee of £50 clear yearly value, above rents and charges, for not less than twenty years.

Lessee of 250 clear yearly value, above rents and charges, for not less than twenty years.

Assignee of the residue of such terms.

Sub-lessee, or his assignee, of such terms, if occupying.

Tenant actually occupying lands, &c., at yearly rent not less than £50.

Freebolders and copybolders must have been in possession or in receipt of their profits for six calendar months, and leaseholders for twelve months, and tenants must have occupied twelve months before the last day of July in each year—except in cases of descent, devise, marriage, or promotion.

CITIES AND BOROUGHS. Owners or tenants actually occupying any house, shop, &o., of £10 yearly value; or of such value, together with land of which they are owners, or which they hold under the same landlord; or of premises beld in immediately.

diate succession.

Joint occupiers of such premises, and of such value, as shall give £10 yearly to each occupier. The premises must be occupied for twelve calendar months, and the voter have resided for six months, before the last day of July, in the horough, or within seven miles. He must have been rated for the poor during such twelve months, and must have paid the rates due to the 6th of April preceding on or hefore the 20th July. If persons otherwise qualified are not rated, a claim may he made upon the overseers to put their names on the rate; and thereupon, and on payment or tender of the rates, they are to be deemed rated from the date of the then existing rate.

2. Freemen made after the 1st of March, 1831, if by any other right than birth or aervitude, are not to he regrestered; nor in right of birth, unless it was derived from a freeman entitled before that time, or thereafter hecoming free by servitude.

3. A saving of the rights of persons otherwise entitled to vote on the 7th of June, 1832.

CITIES AND TOWNS COUNTIES OF THEMSELVES.

1. Freeholders—as for Counties.

1. Freeholders—as for Counties.
2. Burgage tenants in possession of rents and profits for twelve months (unless qualified by descent, marriage, devise, or promotion), and resident for six months before the last day of July within the city, or seven miles thereof.



NOVEMBER

FOX HUNTING

TALLY HO! Tally ho! all unconsciously shouts the reader as he glanoes at our sketch of the thoroughly English sport of fox-hunting. Tally ho! echo we; and the cheerful sound wakes a feeling, strong, fresh, and invigorating, in the heart of the charge of the charge.

we; and the cheerful sound wakes a feeling, strong, fresh, and invigorating, in the hearts of all true lovers of the chase.

See how he steals along! Now, if he lasts forty-five minutes, with huntsman and hounds at him upon such good terms at starting, and then a cheek should come, the odds are in favour of pug. Note the pace of the fox!—it is extraordinary—he does not seem to go fast, or to be alarmed, or in a hurry; for the first field or so you fancy that the leading hounds would pick him up, hut the nearest hedge-row settles that point; you lose sight of him there, and the chances are that you do not see him again that day, if you have anything less than a first-rate horse. With a good seent for the first half-hour; you have little to think of but to keep as near as you can to your hounds, without distressing your horse, for at this season especially foxes travel a long way from home; they do not ring ahout or wait, and if halfled at one point quickly make for another. The first thirty minutes weed off the majority of a large field, and then begin the joys of the chase; pace is settled down to a steady rate when horse and hound can live together, and the fury of the ouset has ceased. of the ouset has ceased

But who shall tell of fox-hunting or Melton, while Nimrod himself is in the field? Hark to him:—

"The penoli of a painter is now wanting; and unless the painter should be a sportsman, even his penoil would be worth little. What a country is before him; what a panorama does it present! Not a field of less than forty—some a hundred acres—and no more signs of the plough than in the before him; what a panorama does it present! Not a field of less than forty—some a hundred acres—and no more signs of the plough than in the wilds of Siberia. See the hounds in a body that might be covered by a damask table-cloth—every stern down, and every head up, for there is no need of stooping, the scent lying breast-high. But the crash! the music! how to describe these! Reader, there is no crash now, and not much music. It is the tinker that makes great noise over a little work; but at the pace these hounds are going there is no time for babbling. Perchance one hound in five may throw his tongue as he goes to inform his comrades, as it were, that the villain is on hefore them, and most musically do the light notes of Vocal and Venus fall on the ear of those who may be within reach to catch them. But who is so fortunate in this second hurst, nearly as terrible as the first? Our fancy supplies us again, and we think we could name them all. If we look to the left, nearly abreast of the pack, we see six men going gallantly, and quite as straight as the hounds themselves are going; and on the right are four more, riding equally well, though the former have rather the best of it, owing to having had the inside of the hounds at the last two turns, which must be placed to the chapter of accidents. A short way in the rear, by no means too much so to enjoy this brilliant run, are the rest of the dite of the field, who had come up at the first check; and a few who, thanks to the goodness of their steeds, and their determination to be with the show spontons of distress. Two horses are seen loose in the distance—a report is flying about that one of the field is badly hurt, and something is heard of a collar-bone being broken, others say it is a leg; but the pace is too good to inquire. A cracking of rails is now heard, and one gentleman's horse is to be seen resting, nearly halanced, across one of them, his rider their on his back in the ditch, which is on the landing side. 'Who is he!' says Lord Brudenel to Jack Stev forty-some a hu wilds of Siberia.

oan but wish you a good place in the fray, and the ability to keep it. In 1793, a fox in the neighbourhood of Imber, Wilts, being hard ruu, took shelter under the covering of a well, and by the endeavours used to extricate him thence, was precipitated to the bottom, a depth of one hundred feet: the bucket was let down; he laid hold of it, and was drawn up some way, when he again fell: the bucket being let down a second time, he was drawn up safe; after which he was turned off, and beat the hounds.

Dr. Goldsmith asserts, that a bitch fox, which it appears had but one cub, was unkennelled by the hounds, near Chelmsford, in Essex, wheu the animal, hraving every danger, took the cub in her mouth and ran with it for some miles. At length heing driven through a farm-yard, she was attscked by a mastiff, and obliged to drop her cub, which was taken up by the farmer. She, however, beat her pursuers, and got clear off.

In the year 1785, the hounds of Mr. B. Dudley frequently had a good drag on the banks of the Crouch river in Essex, but without fluding their fox. As, however, they were one morning drawing tho remote church-yard of Crickseth, which was overgrown with thick bushes, a labouring man informed the hounds challenge about a quarter of an hour ago. In consequence of this information the hounds chopped in different spots for several miles; but a fall of sleet prevented their reaching the fox that day. A week or two afterwards he was found in an adjoining copse, and after a lingering run of upwards of two hours he shaped his oourse to the churchyard in question. The hounds reached the place and came to a check; upon which a bitch, named Gaylass, raised herself against an old buttress of the church, and gave tongue. The master of the hounds dismounted, and, with another of the gentlemen, ascended the hutress up to the roof of the church, which was very low, and thickly overed with ivy, amongst which they found several fresh kennels. Some of the sportsmen below lifted several of the hounds upon the roof, where the

The late Mr. Selby had a tame fox that used to run with his fox-hounds; and this circumstance had not the effect of preventing the dogs from pursuing their chase in the fields, in which, it would appear, the tame fox eagerly

In 1805, Mr. Salter, of Rickmansworth, Herts, had a fox that isy constantly in the kennel with his harriers; he was completely master of the feeding-yard, not suffering a hound to eat near him until he was satisfied

In the year 1813, a curious exhibition took place in the Hundred House Meadow, Witley:—Five wild rabbits were singly turned down, at an assigned distance, before a dog-fox, trained by Mr. C. Tearne, of Stockton, Worcestershire; and, after an excellent course, were severally killed by renard in very capital style.

very capital style.

At the Golden Bear, Reading, some years ago, a young fox had been placed in a wheel, and taught to turn the jack. After some time, he escaped and regained his native woods. Here he met the fate common to his species; he was pursued by the hounds, and, in his flight, ran through the town of Reading, and, springing over the half-door of the kitchen, jumped into the whiel and resumed his old occupation, in the very place where he had formerly been brought up, and thus saved his life.

ROACH, pike, chub, trout, and grayling, are the only fish in season. The baits used in January will do for this month.

GENERAL POSTAL REGULATIONS.

GENERAL POSIAL REGULATIONS.

BEADS OF DEPARTMENTS.—Post-master General, Earl Lonsdale, K. C. B.;

Scoretary, Lieut. Col. W. I. Maberly; Assistant Secretary, S. Læwrence,

Esq.; Chirf Cierk to the Secretary, J. Campbell, Esq.; Solioitor, Mark B.

Peacock, Esq.; Surveyor and Superintendent of Mail Conveyance and
Guards, G. Stow, Esq.; Inspector of Ship Letters, G. Huddlestone, Esq.;

Inspector of the Dead Letter Office, C. Newton, Esq.; President of the Money Order Office, W. Barth, Esq.; Superintending-president of the Inland,

and Foreign Department, W. Bokenham, Esq.; Inspector of the Carriers

(general post), F. Kelly, Esq.; President of the Londou District Post, R.

Smith, Esq.

and Foreign Between the control of the London (general post), F. Kelly, Esq.; President of the London Smith, Esq.

INLAND REGULATIONS:—Rates of Postage:—
All letters from one part of Great Britain to another (including the Local Penny Posts and the London Twopenny Poat), are charged by weight as follows, if prepaid:—

Not exceeding \(\frac{1}{2} \) an onnce \(\frac{1}{2} \) and rot exceeding \(\frac{1}{2} \) onnce. \(\frac{2}{2} \).

letters insufficiently paid or stamped, are charged double the amount of such such insufficiency on delivery.

Letters or packets exceeding 1602s, in weight not forwarded—except, Parliamentary petitions and addresses to Her Majesty, Parliamentary proceedings,

Letters or packets addressed to, or received from, places beyond sea, Letters or packets to and from public departments, and public officers heretofore franking by virtue of their office.

PRICES OF STAMPS.

AT A POST OFFICE.—Labels, 1d. and 2d. each; Covers, 2s.3d. per two dozen.

dozen.

At a STAMP DISTRIBUTOR'S, as above, or as follows:—Half-ream, or 240 Penny Covers, II. 2s. 4d.—Penny Envelopes. II. 1s. 9d. Quarter-ream, or 120 Twopenny Covers, II. 1s. 4d.—Twopenny Envelopes, II. 1s. Id.

At the STAMP OFFICES in London, Dublin, and Edinburgh, as above, or as follows:—2 Reams, or 960 Penny Covers, 4t. 7s.—Penny Envelopes, 4t. 5s. I Ream, or 490 Twopenny Covers, 4t. 3s. 6d. Twopenny Envelopes, 4t. 2s. 6d. Covers may be had at these prices, either in sheets, or cut ready for use. Envelopes in sheets only, and consequently not made up. No one, unless duly licensed, is authorised to sell postage stamps.

The Penny Stamp carries half an ounce (inland), the Twopenny Stamp one onnce. For weights exceeding one onnce, use the proper number of labels, either alone or in combination with the Stamps of the Covers or Envelopes.

one onnce. For weights exceeding one ounce, use the proper number of labels, either alone or in combination with the Stamps of the Covers or Envelopes.

HOURS OF POSTING.

FOR THE EVENING MAILS:—The receiving houses close at 5 30 p.m. Letter carriers ring bells and take letters in the streets to go by the evening mails from 4 30 to 5 30 p.m., (with such letter one penny fee is charged as a perquisite to the postman). Letters are received for the evening's dispatch at the Branch Post-offices at Charing-cross, Old Cavendish Street, and 108, Blackman Street; Southwark until 6 p.m., and, with a fee of one penny, which must be paid by affixing a stamp to the letter, until 6 4 p.m. At the Branch post-office in Lombard-street the box remains open without additional fee until 6 p.m., and until 7 p.m. by affixing a penny stamp. At the General Post-office in St. Martin's le-grand until 6, free, and 7 by payment of the extra charge as at Lombard-street. From 7 to half-past 7 p.m., letters may be posted there upon payment of a fee of sixpence each, which must, as well as the postage, be prepaid. Letters intended to pass by ontward maila to foreign parts must be posted at the above hours. In the case of Colonial and ahipletters, however, there is this difference:—The "late" fee of one penny may be paid either in money or by means of a stamp affixed to the letter. Letters (overland) to India via Marseilles are taken in at the Branch offices as follows:—Thesdays and Fridays at Charing-cross, Old Cavendish-street, and 108, Blackman-street, Southwark, until 8 p.m.; at the office in Lombard-street, and the General Post-office in St. Martin's-le-grand, only, from 10 p.m. until 11 p.m. on payment of a fee of one penny, and from 11 until 11 30 on payment of a fee of sixpence.

Foa The Morning Malls:—The letter boxes for the post towns, to which bags are made up and conveyed by morning mails, daily, are open as follows:—At the receiving houses throughout the metropolia until 7 a.m. for newspapers, and 8 a.m. for letters; at the Bran

MORNING MAILS.

Accrington
Andover Road
Appleby
Banbury
Bangor Barnsley Bath Basingstoke Beaumaris Belper Berwick Berkhempstead Birmingham Bishops Storford Blackburn Bradford, Yorkshire Brackley Brampton Brighton Buckingham Burnley

Burton, W. Cambridge Canterbury Carlisle Carnaryon Cbatham Chepstow Cheltenbam Cheater Cbester-le-street Chippenham Cirencester Clitheroe Cockermouth Conway Coventry Cowes Cuckfield Darlington Dartford Daventry Derby Dover Durham

Fenny Stratford Feversham Gateshead Godalming Gloucester Gosport Gravesend Guildford Halifax Haydon Bridge Hemelhempstead Hertford Hexham Highworth Hoddesdon Holyhead Holywell Huddersfield Kendal Lancaster Leamiogto n

Fareham

Fairford Farringdon

Lechlade	Ramsgate	Towocater
Leighton Buzzard	Reading	Tring
Leeds	Reigate	Ulverstone
Leicester	Rickn_answorth	Uxbridge
Lewes	Rochdale	Wakefield
Liverpool	Rochester	Wallingford
Maidenhead	Rotherham	Walsall
Maidstone	Rugby	Ware
Manchester	Ryde	Warrington
Margate	Saffron Walden	Warwick
Maryport	Sheffield	Watford
Milntborpe	Sittingbonrne	Weedon
Mold	Shoreham	Whitehaven
Monmouth	Slough	Wigan
Nottingham	Southampton	Wigton
Newcastle Tyne	South Shields	Winchester
Newport, I. of W.	St. Asaph	Windsor
Newport Pagnell	St. Albans	Wolverhampton
Northampton	Stafford	Workington
North Shields	Stookport	Worthing
Oxford	Stone	York
Penkridge	Stroud	}
Penrith	Stony Stratford	
Portsmonth	Stratford-on-Avon	
Preston	Sunderland	All Ireland
Preston Brook	Swindon	
Tieston Brook	Swindon	All Scotland
LETTER-RATES TO	PLACES BEYOND T	THE LIMITS OF TH

TO PLAUES LINGDOM.
UNITED KINGDOM.

WEST INDIA AND AMERICA BATES.
PACKET RATES, psying the Postage opinonsl, excepting those places market, which must be paid with.

Under & oz.

s. d.

I O

1 0

North America, viz.:—Quebeo, Montreal, and all parts of †Canada; Nova Sootia (Halifax excepted), Prince Edward's Island, and New Brunswick, conveyed direct by the contract packets (being one shilling packet postage, and twopence uniform internal colonial rate) *If forwarded vid Boston, the above places are charged Halifax, Newfoundland, *New York, the Bernmdas, and the *United Statea British West Indies, &c., including King*ton (Jamaica), Barbadoes, New Providence, Turk's Island, Balanmas, Antigna, Berbice, Cariacon, Demerara, Dominica, Grenada, St. Lucia, Monserrat, Nevis, St. Vincent's, St. Kiti's, Tobago, Tortola, and Trinidad Foreign West Indies, including *Ganadaloupe, *Martinique, *St Thomas, *Curaçoa, *Surinam, *St. Martini's, *St. Croix, and Porto Rico.

Jamaica (all the island, except the packet-port, Kingston).

Letters to the West Indies are forwarded at the above uniform rates from

all parts of the United Kingdom.

All Letters addressed to North America will be considered as intended to he forwarded by the contract steam packets, and charged accordingly, unless the words "By Private Ship" be plainly written on them.

† Letters for Canada, conveyed by the North American packets from Liverpool, if a specially addressed "vid Boston," will be forwarded by that route, in the United States mail, provided the packet postage is paid in advance.

SHIP LETTER BATES.

The single uniform rate on letters between the United Kingdom and places beyond sea, when conveyed by private ships, is 8d., in whatever part of the United Kingdom the letters may be posted ar delivered. This is the rate now taken on letters between the United Kingdom and the East Indies, &o. &c., when conveyed by private ship, the former distinction hetween these and other descriptions of ship letters having been abolished.

The rates of poatage on "ship "as on other letters are taken by weight:— Under half an ounce ... Single.

Under two ounces ... Double.

Under two ounces ... Onadrunle.

Under an ounce ... Under two ounces ... Quadruple. ja + Under three onncea... Sextuple, and so on.

PERSONS EXEMPT FROM SHIP LETTER POSTAGE.

PERSONS EXEMPT FROM SHIP LETTER POSTAGE.

The Owners, Charterers, or Consignees, (resident in the United Kingdom), and the Owners, Consignees, and Shippers of Goods on board vessels inward bound, are entitled to receive their letters free from see postage, to the extent collectively of aix ounces in weight, by any one vessel to any one such person. In the case of vessels coming from Ceylon, the Mauritius, the East Indus, or the Cape of Good Hope, for an Owner, Charterer, or Consignee of such vessel, the letters may be collectively twenty ounces in weight. The Owner, Charterer, or Consignee, must be described as such on the address and superscription; and in the case of Owners, Shippers, or Consignees of goods, it must also appear by the Ship's Manifest that they have goods on board the vessel. Such persons are entitled to have their letters, which come within the above conditions, before the master of the vessel delivers the other letters in his charge to the post-office.

** Every person who shall, with intent to evade any duty of postage, falsely superscribe a letter as being the Owner, or the Charterer, or the Consignee of a vessel couveying the same, or as the Owner, or the Shipper, or the Consignee of goods shipped in such vessel, shall for every such offence forfeit Ten Pounds.

MONEY.

Coin, if enclosed in letters at all, should be folded in paper, sealed, and then fastened to the inside of the letter; but to avoid risk, a money order should be used whenever practicable. A letter may be registered on the payment of 1s. only.

COLONIAL LETTERS, if sent by packet, twelve times, if hy private ship,

COLONIAL LETTERS, if sent by packet, twelve times, it by private ship, eight times the preceding rates.

FOREIGN LETTERS: The packet rates are too various to he enumerated here. The ship rates are the same for foreign as for colonial letters. As regards both foreign and colonial letters, there is no limitation as to weight. All sent outwards, with few exceptions, must be prepaid by money or by stamps; and those going by private ship must he marked "ahip letter."

It is requested that all letters may be fully and legibly addressed, and posted as early as convenient. Also that whatever kind of stamp may be used, it may invariably stand above the address, and towards the right hand side of the letter.



DECEMBER.

THE YULE BLOCK.*

A CHRISTMAS CAROL.

A cross-grain'd block of eim we'll take
And by his light hold merry wake!—Old Ballad.

When holly leaves and ivy green,
With berries bright and dark between,
Around the cottage room are seen,
The simple place adorning—
What joy hefore the cheerful blaze,
The almost conscious fire displays,
To sit in Christmas' merry days

Ay! sit up till the morning!

And hear the early carillon
Of village bells—while old and young
Are mingled in that festal throng,
Through life we aye remember!
To feel the heat of Summer's glow,
In frosty depth of Winter's snow
And think we're Maying it, although
'Tis flowerless December!

CHRISTMAS is now no longer marked by that fervid hospitality which characterised its observance among our forefathers. At present, Christmas meetings are chiefly confined to family parties. The wassail bowl, the yule clog, and the Lord of Misrule, with a long train of sports and customs, which formerly prevailed at this season, are nearly forgotten: even Christmas carols are nearly gone by; and the decking of churches and of a few houses of people in humble life, with holly and other evergreens, forms now almost the only indication that this great festivalis at hand, if we except the distribution of warm clothing and creature comforts among the poor by those whom heaven has blessed with "the luxury of doing good." In olden times—

On Christmss Eve, the bells were rung; On Christmss Eve, the msss was sung. That only night in all the year, Saw the stoled priest the chslice rear. The damsel donned her kirtle sheen;

To join the hearty laugh around,
When some coy damsel's feet are found
To thoughtless tread the fairy-ground
The Mistletoe that's under;—
And see some louging lover steal
A kiss from cheeks that ill conceal
The secret joy they inward feel,

'Neath frowns and hlushing wonder!

What face with summer s sun embrown'd
Was ever half so joyous found
As those in ruddy gladness 'round
The YULE-BLOCK'S† cheerful gleaming!
Romance may seek wild solitudes,
By waterfalls in lonely woods—
But Mirth and Love, with happier moods,
O'er Christmas hearth are beaming!
W.

Yule from the Saxon yeal or yehul, the Christmas time.
 † In many parts of the country it was a practice to preserve a portion of the yule block to the next year in order to light the new Christmas log.

The hall was dressed with holly green;
Forth to the wood did merry men so,
To gather in the mistletoe.
Then opened wide the baron's ball,
To vassal, tenant, serf, and all.
The pursuit of the fox may be now enjoyed in perfection; the fox, the hounds, and the horses having, by exercise, obtained good wind and good running condition altogether. Hares which by previous over-feeding were rendered somewhat sluggish will now stand up well hefore their pursuers, and afford as good runs, if not hetter, than at any other period of the season.

ANGLING.

Use the same baits as last month. In favourable weather, pike, roach, and ohub, may sometimes he taken; but all other fish have retired to their winter retreats, to soreen themselves till the voice of Spring again re-animates, and calls them forth to their old haunts.

THE ILLUSTRATED LONDON ALMANACK.

There are "made up" in London the following mails, as specified by the notices to the public, issued by the Post-Master-General :--

									ndon.								Postage.
France	• •		• •		Daily				• .		Deily						Under 1 oz. 10d.
Belgium		• •		• •	Monday	, Tue	esday',	Thursday	7 & Fri		Sunday,				7 & F.id	ay	" 4 oz. 1s. 3d.
Holland		• •	• •	• •	Tuesday	and	Friday	<i>t</i> .			Monday						,, & oz. 1s.
Hamhurg,	Sweden,	and Norv	way	••	Tuesday	and	Friday	,		••	Tuesday	and S previ	aturday ous day	, but i	ısually a	ar- §	, ½ oz. 6d. Sweden Norway, 1s. 8d. under 1
Sweden and	Norway	during	the sumn	ner }	Friday						Tuesday		••		••		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Dublin					Twice a	dav					Twice a	day					(
Waterford					Daily	•••					Daily						
Donaghade	3		• •		Daily						Daily					1	Inland rates.
Gurnsey an	d Jersey		••	• •	Tuesday	and	Friday				Monday	and T	hursday	•	•	((
Lisbon, Ma							1 T	ry Thur	day M	forn	<i>ing</i> viz.:—On	the fi	ret day	of eve	•		Under { oz. ls. 9d.
Malta, Gree	ce, and l	lonian Is	lands, vid	Sou	thampto	n.					nearest to					", }	,, ‡ oz. ls 3d.
Syria, Egyp Brazil, Bue	t, and In	dia, <i>viá</i> s, Madei	Southam ra, and C	pton anary	y Islands		. First	st day in Tuesday	each n in eac	nontl li mo	h ontli.	• •	••	٠.	•	•••	,, 4 nz. 1s. 6d. ,, 4 oz. 2s. 9d.
British Nor	th Ameri	ca, Berm	uda, and	Unite	ed States		.{ D	ecemher	, Janu	ary,	month, February	, and	March,	and th	en on t	hé }	See table below,
Jamaica, Le	eward Is	lands. H	avti Port	to Ri	co. and C	uba.	Mo	rnings of	the 2	id ar	nd 17th of	cvery i	month	:		<i>!</i>	Ditto.
Mexico, Par	ama, Ne	w Grans	da, and V	enez	uela		. Mo	rning of	ho 2nd	d of e	very mon	th				••	Ditto.

The mails despatched every Thursday for Vigo, Oporto, Lishon, Cadiz, and Gibraltar are forwarded by steam vessels from Southampton to Gibraltar. The mails for Malta, Greece, and the Ionian Islands, despatched from London ou the Thursday nearest to the 15th of the month, are conveyed from Gibraltar to Malta by her Majesty's steam packets employed in the Mediterranean.

The mail of the first day in each month is forwarded by the same packet from Southampton to Alexandria; leaving mails at Multa.

The mails for Greece and the Ionian Islands are conveyed from Malta

every fortnight, hy steam packets, which start after the arrival of the mails from England.

From Angust to January inclusive, the packet touches at Perrambuco and Bahla, on her outward passage to Rio Januaro, and the other six and BAHIA, on her outwo

RATES OF POSTAGE WITHIN BRITISH NORTH AMERICA.

RATES OF POSTAGE WITHIN BRITISH NORTH AMERICA.
Letters forwarded to nr from British North America by the Liverpool
packets, or hy private ships, passing direct between the United Kingdom and
British America, are charged with an uniform colonial rate of twopence the
half onnce when posted or delivered at any other towns than the ports of
Halifax, Nova Scotia, or St. John's Newfoundland.
When not conveyed direct between the United Kingdom and British
America, but forwarded through the United States, they are liable to the full
internal rate according to distance.

internal rates, according to distance.

MONEY ORDERS.

MONEY ORDERS.

Orders for sums not exceeding £2 are charged threepence; not exceeding £5, sixpence; above £5 no money order can he obtained. They are granted and paid hetween the hours of ten and four daily: they are paid only to the person for whom they were obtained, but he may depute another person to receive the money hy signing the order, and giving his deputy the christian and surname, the address, and occupation of the person who originally obtained the order, so that the deputy may he enabled to give those particulars when he presents the order at the office for payment. Persons residing in London should instruct their correspondents who may obtain money orders, to make them payable at the most convenient of the above offices, as money orders granted, hearing London only, can he paid only at the principal office, St. Martin's-le-Grand. St. Martin's-le-Grand.

LONDON DISTRICT POST.

n and doz.

The following table shows the times at which letters are despatched from and to London, and to and from places within the limits of the London dis-

Letters must be posted at receiving-houses in London, Morning, before 8 for the 10 o'clock dispatch " 10 " 12 ", ,, 12 12 3 5

At the principal office, St. Martin's-le-Grand, letters must be posted,

Morning, before 9 for the 10 o'clock dispatch,

11 12

q. before 1 q. hefore 2 q. hefore 3 q. before 4 q. before 5 q. hefore 6 " " 6 hefore 7 before 8 8 next morning. "

hefore 7 , 8 before 8 , 8 next morning.

The deliveries in the country commence immediately upon the arrival of the dispatch from London, except the 8 o'clock night dispatch, which is not delivered till the next morning. The time of arrival of the day-dispatches may be calculated by the distance from London, allowing the post to travel at ahout the rate of eight miles an hour. Letters for places on the main reads are delivered generally sooner than those for places a distance from them; the deliveries occupy, according to distance from London, from one hour and a half to three hours after the time of dispatch from London. Receiving-houses where the mail cart stops are also called sorting-offices: where there are other receiving-houses in the same place or town, letters are generally dispatched from the latter from a quarter to three-quarters of an hour earlier than from the sorting-offices. There are no receiving-houses at those places having no time stated for dispatch to London.

METROPOLITAN PUBLIC CARRIAGES, HACKNEY AND STAGE COACHES, ETC.

METROPOLITAN PUBLIC CARRIAGES, HACKNEY AND STAGE COACHES, ETC.

Office, No. 3, Princes Street, Storey's Gate, Westminster.
Registrar, H. Wedgwood, Esq.

This office was established in October, 1838, under the provisions of the Act of 1 and 2 Vict.cap, 79. Every carriage plying foo hire within 10 miles from the General Post Office, and not being a stage carriage, is to be considered a "Hackney Carriage;" and every Stage Carriage (except such as every journey go beyond these limits) a "Metropolitan Stage Carriage." Every such carriage is to bave the number, and the number of passengers licensed to carry, conspicuously placed inside and outside.

The Act requires all drivers, conductors, and watermen to he licensed; authorises the registrar to grant licenses on payment of 5s., and requires such persons to wear hadges. A magistrate may suspend for two months, and two magistrates may revoke the license. Driver or conductor by misconduct occasioning damage on highways, being drunk during employment, or abusive, to forfeit not exceeding £3. or be committed for not exceeding two months; and magistrate may order compensation from proprietor not exceeding £5. For obstructing road, improperly delaying on journey, or deceiving as to destination or route, or stopping on crossing, a fine not exceeding £1. The Act requires complaints to he made within aeven days from offence. The justice's decision is final. It is important to hear in mind that, if the complainant is the only witness, he must, hefore his evideuce is taken, renounce his right to share of penalty, the whole of which thereupon goes to cost of police of district; otherwise only half, the other going to the complainant. In all cases with costs. Actions under this statute are to be commenced within three months. The regulations to prevent oxtortion, which are in force as regards the fares for Hackney Carriages, apply to these carriages also. The regulations as to Hackney Carriages, Drivers are compellable to drive to any place within the prescribed limits; to wait,

half mile beyond the first mile is 6d. for Coaches, 4d. for Cabriolets. Every 15 minutes completed, and part of 15 minutes, beyond the first 30 minutes 6d.

infinites completed, and part of 15 minutes, event the inst 50 minutes, 6d.

Back fare payable after eight in the evening, but not after five in the morsing, where discharged beyond limits.

NEW REGULATIONS RESPECTING STAGE CARRIAGES, INCLUDING OMNIBUSES.

No stage carriage is to carry passengers otherwise than upon proper seats, allowing 16 inches in breadth for each passenger; children under five years of age, sitting on the lap, not to be reckoned. The number of passengers is to be painted conspicuously in the inside of every carriage, and on the back nutside, under a penalty of £10 against the proprietor. No more than the proper number of passengers are to be earried, under a penalty of £5 each against the driver and conductor respectively. Any constable, peace-officer, or passenger, may measure the seats, under a penalty of £5 against any per soor refusing or obstructing such measurement.

N.B. Rules are laid down respecting the number of outside passengers, limiting it according to the height and size of the carriage, independently of the limitation resulting from the length of the seats. See 5 and 6 Victoria, c. 79, ss. 13—17.

PORTERAGE.

The Rates of Porterage are regulated by Act in 39 Geo. 111. cap. 58. FOR any parcel not weighing more than 50lhs. and when the distance does not exceed a quarter of a mile, 3d.; half a mile, 4d.; a mile, 6d.; a mile and a half, 8d.; two miles, 10d.; and 3d. for every additional half mile. Posters exacting more to be fined not exceeding 20s.; mishehaving 20s. to 10s. A ticket to he sent with every parcel; charge for carriage and posterage marked on it, under a penalty of 40s, or not less than 5s. Parcels are to be delivered at any place within half a mile of the carriage pavement in six hours after arrival, under a penalty of 20s. and not less than 10s. Parcels arriving between four in the evening and seven in the morning to be delivered in six hours from the latter period, under the like penalty. Informatious under Act to be laid within 14 days, with appeal to Quarter Sessions.

The business of the London and Metropolitan Parcels Delivery Company, not he plan of the London Local Post, continues to be conducted with cheapness and punctuality, and to be successful and useful. Chief station, Roll's Buildings, Fetter Lane; and there are upwards of seven hundred receiving houses.

RATES OF PARCELS FROM INNS IN LONDON

For any parcel not weighing more than 56lbs, and where the distance does not exceed a quarter of a mile, 3d.; half a mile, 4d.; a mile, 5d.; a mile and a half, 8d.; two miles, 10d., and 3d. for every additional hulf mile. Potters

exacting more to be fined 20s., or not less than 5s.; misbehaving 10s. to 20s. A ticket to be sent with every parcel, with the charge for carriage and porterage marked on it, under a penalty of 40s., or not less than 5s. Parcels are to be delivered within six hours after arrival, under a penalty of 20s., or not less than 10s. Parcels arriving between four in the evening and seven in the morning, to be delivered in six hours from the latter period under the

RESPONSIBILITIES OF CARRIERS.

By I William IV. cap. 68, it is enaoted, that mail contractors, coach proprietors, and carriers, shall not be liable for the loss of any parcel containing coin, gold or silver manufactured or unmanufactured, jewellery, watches, clocks, &c.; bills, bank notes, or securities for the payment of money; maps, writings, title-deeds, paintings, plated articles, glass, china; manufactured or unmanufactured silks, furs, or lace, where the value of such parcel exceeds

101., unless delivered as such, and an increased charge be paid and accepted for the sume, of which charge notice is to be affixed in offices and warehouses. Carriers, &c., are to give receipts, acknowledging such increased rate; and in case of neglecting to give receipt or affix notice, the party not to be entitled to the benefit of this act. The publication of notices is not to limit the liability of proprietors, &c., in respect of any other goods conveyed. Every office used to be deemed a receiving house; and any one coach proprietor or carrier liable to be sued. Nothing in this act extends to annul, or in anywise affect any special contract between such mail contractor, stage-coach proprietor, or common carrier, and any other parties, for the conveyance of goods. This act does not protect any mail contractor, stage-coach proprietor, or other common carrier, from liability to answer for loss or injury to any goods arising from the felonious acts of any coachman, guard, hook-keeper, or other servant, nor to protect any such coachman, servant, &c., from liability, for any loss or injury occasioned by his own neglect or misconduct.

NEW RAILWAY REGULATIONS.

By the act passed (cap. 85) by Parliament during the late session, and known as "Mr. Gladstone's Railway Bill," the following additional provision is made for the accommodation of the public by Railway conveyance:—

as "Mr. Gladstone's Railway Bill," the following additional provision is made for the accommodation of the public by Railway conveyance:

In order to secure to the poorer class of travellers the means of travelling by railway at moderate fares, and in carriages in which they may be protected from the weather, be it enacted, that on and after the several days hereinafter specified, all passenger Railway Companies which shall have been incorporated by any Act of the present session, or which shall be hereafter incorporated or which by any Act in the present or any future session, have obtained, or shall obtain directly or indirectly, any extension or amendment of the powers conferred on them respectively by their previous Acts, or have been or shall be authorised to do any act unauthorised by the provisions of such previous Acts, shall by means of one train, to travel along their railway from one end to the other of each trunk, branch, or junction line helonging to or leased by them, so long as they shall continue to carry other passengers over such trunk, branch, or junction line, once each way, on every week day, provide for the conveyance of third class passengers to and from the terminal and other ordinary passenger stations of the railway, under the obligations contained in their several Acts of Parliament, and with the immunities applicable by law to carriers of passengers by railway; and also under the following conditions (that is to say)—

Such train shall start at an hour, to be from time to time fixed by the Directors, subject to the approval of the Lords of the Committee of Privy Council for Trade and Plantations.

Such train shall travel at an average rate of speed not less than twelve miles an hour, for the whole distance travelled on the railway, including stoppages.

miles an hour, for the whole distance travelled on the railway, including stoppages.

Such train shall, if required, take up and set down passengers at every passenger station which it shall pass on the line.

The carrisges in which passengers shall be conveyed by such train shall be provided with seats, and shall be protected from the weather, in a manner satisfactory to the Lords of the said Committee.

The fare or clarge for each passenger by such train shall not exceed one penny for each mile travelled.

Each massenger by such train shall be the same train shall not exceed one

Each passenger by such train shall he allowed to take with him half a

hundred weight of luggage, not being merchandise, or other articles carried for hire or profit, without extra oharge; and any excess of luggage shall be oharged by weight, at a rate not exceeding the lowest rate of oharge for passengers luggage by other trains.

Children under three years of age, accompanying passengers by such train, shall be taken without any charge; and children of three years and upwards, but under twelve years of age, at half the charge for an adult passenger.

And with respect to all railways subject to these obligations which shall be open on or before the 1st day of November next, these obligations shall come into force on the said 1st day of November; and with respect to all other railways subject to these obligations, they shall come into force on the day of opening of the railway, or the day after the last day of the session in which the Act shall be passed by reason of which the Company will become subject thereunto, which shall first happen.

And if any Railway Company shall refuse or wilfully neglect to comply with the provisions of this Act, as to the said oheap trains, within a reasonable time, or shall attempt to evade the operation of such order, such Company shall forfeit to her Majesty a sum not exceeding £20 for every day during which such refusal, neglect, or evasion shall containe.

Except as to the amount of fare or charge for each passenger by euch cheap trains, which shall in no case exceed the rates hereinbefore is such case provided, the Lords of the said Committee shall have a discretionary power, upon the application of any Railway company, of dispensing with any of the conditions hereinbefore required in regard to the conveyance of passengers by such cheap trains as aforesaid, in consideration of such other arrangements: either in regard to speed, covering from the weather, seats or other particulars, as to the Lords of the said Committee shall appear more beneficial and convenient for the passengers by such sheap trains under the circumstances of the case, and sh

any such cheap train as aforesaid.

NEW LAWS OF DEBTOR AND CREDITOR.

THE following is an Analysis of the leading Clauses of the New Insolvent Debtors' Act, 7 and 8 Vic., cap. 96, for Abolishing Imprisonment for Debts of £20, and under; and of an Act for Facilitating Composition with Creditors, 7 and 8 Vic., cap. 70.

ANALYSIS OF AN ACT TO AMEND THE LAW OF INSOLVENCY, BANKRUPTCY,

Petition for Protection may be presented to any Court of Bankruptcy within district of which Debtor shall have resided twelve months.

Form of Petition—to be verified by Affidavit.
All Creditors to the anount of £5 named in the Schedule to Petition to have Notice; Advertisement in London Gazette, &c., appointing first Examination; Commissioner may adjourn Examination, permit Amendment of Schedule. Assignees to be chosen.

Property of Petitioner to vest in Assignees from Appointment—to be in every case possessed and received by the Official Assignee alone. Chancellor, &c., may make orders for security of the property.

Commissioners to have same power a sunder a fat for seiznre of Property, compelling attendance of Witnesses, production of Documents, &c.

Privoner in Execution not being a Trader, or whose Debts are less than £300, may Petition for Protection; Interim Order will discharge Prisoner without Fee; Judgment to remain in force until final order for Protection. If Petitioner die, commissioner may proceed in the discovery and distribution of Property.

Necessigns and Working Tools to the value of £500 areas for the second of the commissioner without the second of the

Necessaries and Working Tools to the value of £20 excepted from the operation of this Act and 5 & 6 Vict, c. 116—to be valued and inserted in

Schedule.

Pending appointment of Creditors' Assignees, Official Assignee to act as sole Assignee; Commissioner may order allowance to Petitioner; In case of death or removal of Official Assignee, Property to vest in his successor; If Petitioner dismissed, all Property undisposed of to re-vest in

cessor; It returned tains sea, an Tropoly dataspose of a locate in Petitioner.

Assignees may execute all powers which the Petitioner mighthave executed for his own benefit.

Assignees may sue in their own names, compromise debts, and submit differences with consent of major part in value of Creditors.

Creditors to vote at Meetings only on the balance of accounts due to

Goods in the reputed ownership of Petitioner, with the consent of true owner at the filing of Petition, shall vest in Assignee.

Landlord to recover but One Year's Rent; may prove for balance.

Preferences in contemplation of Petition void against Assignees; If made prior to three months before, and not in contemplation of Filing Petition, not void.

No. Warrant of Attenuar Comparis on Bill of Science he will be the property of the present of the prese

No Warrant of Attorney, Cognovit, or Bill of Sale to be acted on after Pe-lition filed.

Final Order to protect the person of Petitioner against all debts included in

the Schedule, whether due or otherwise.

Prisoner detained for any Claim from which he is protected by the Final

Order, Commissioner may order his disoharge.

Stock or Shares may be transferred by order of the Commissioner.
Commissioner not to make any Final Order of Protection where Debts contracted by Fraud, &c., but to remand to prison—if otherwise, Final Order of Protection to be given in default of cause shown, after notice to Creditors.
Commissioner empowered to adjourn the consideration of Final Order sine die.

Commissioner may, where Final Order adjourned sine die, at a future time in his discretion after hearing Petitioner or any of his Creditors, or his or their Counsel or Attorneys, give an Order of Protection—Where Final Order refused, and Protecting Order not renewed, Debtor not to he imprisoned more than twelve calendar months for any Deht contracted before filing his Dentitan. Petition

than twelve calendar months for any Debt contracted before filing his Petition.

Petitioner taken or detained after sucn Order to be discharged without Fee. Whenever after Audit sufficient funds for a Dividend shall be in the hands of the Official Assignee, Commissioner to order Dividend forthwith—Notice of sitting of Conrt to be given.

At the end of twelve months from filing Petition, Commissioner may order Sale of Outstanding Debts.

No Sale by Auction to be liable to Duty—No Letter o Attorney, Affidavit, Certificate, or Advertisement, or any other proceeding, to be liable to Duty—Sale to be by Liconsed Auctioneer.

Wilfully omitting in Schedule any property otherwise than necessaries and tools to the amount of £20 a Misdemeanour, and punishable with imprisonment and hard labour for any period not exceeding three years.

False Oath or Affirmation perjury.

Fiat in Bankruptcy may issue against Trader who has filed a declaration of Insolvency, upon a Petition of the Trader himself.

No Arrest in any Action for Debt for any sum not exceeding £20, exclusive of the Costs, recovered by such Judgment.

The Court or a Judge shall, on application, after the passing of this Act. (9th Aug. 1844), order the Discharge of Prisoners for Debt, where the same shall not exceed £20, exclusive of Costs.

Judge who shall try Cause may, if it should appear that Defendant contracted Debt under False Pretences, or fraud or without reasonable assurance of being able to Pay, or shall have made away with or transferred Personal Property, order Imprisonment, whether or not execution against the Defendant's goods shall have issued.

Court or Judge making Order for the Payment of Money, in Default, to be Levied by Execution against the Defendant—energy the property of the passing of Sickness, or unavoidable Accident, suspend Execution of order.

order.
Judge may, in cases of Sickness, or unavoidable Accident, suspend Execution until temporary cause of disability has ceased.
Execution superseded, on Payment of Debt and Costs.
If Bailiff neglect to Levy, amount of Execution recoverable from him by Aotion in Court where Execution recovered.
Landlord of Tenement let Weekly only to claim against Execution Creditor Four Weeks arrears—if for other term less than a Year, then the Reut accruing during four such terms.
In case of Claims to Goods taken in Execution, Court, on application of Officer, may summons the Parties, and adjudicate.

ANALYSIS OF AN ACT FOR FACILITATING ARRANGEMENTS BETWEEN DEBTORS AND CREDITORS.

FROM 1st. Sept. 1844, Debtor not being liable to Bankrupt Laws, may petition the Courtof Bankruptcy, signed by one-third the number and value of his Creditors, setting forth a true account of all his Property, for Protection from Arrest.

Commissioner to appoint Private Examination, and on being satisfied of e absence of Fraud or Misconduct, shall direct a Meeting of all the the

Creditors. returners. If at such Meeting nine-tenths in value or number of the Creditors above $\pounds 20$, shall agree to the Debtor's proposal, President shall appoint another

Meeting.

If three-fifths in number and value, or nine-tenths in number or value of Creditors ahove £20 shall agree to proposition made at the first Meeting, and sign the same, it shall thenceforth (subject to the Confirmation of the Commissioner) be binding against the Debtor, and all Creditors served with Notices of the said Meetings. Not to be valid unless a full third in number and value of all the Creditors were present at the second Meeting.

Agreement to he submitted to Commissioner within fifteen days. If con-

firmed, Debtor to have Certificate of Filing, indorsed from time to time with Certificate of Protection. Protection not to be valid where Debtor about to abscond beyond Jurisdiction of Court, or has concealed, or his concealing, Effects, or if Dehts contracted by fraud or breach of trust.

Estate of Petitioner to vest, without deed, in Trustee, from filing of Reso-

lution and Agreement

Intion and Agreement.

Trustee, every Six Months, or oftener, in the discretion of the Commissioner, or two or more Creditors whose debts amount to one-fourth of the whole, to produce for examination an account on eath. Commissioner to certify result of Examination, and, if need be, order payment to Creditors.

Petitioner liable, at any time, to be summoned and examined on oath upon representation by Trustee or any two Creditors that true discovery &c.

not made.

not made.

In cases of difficulty, Special Meeting of Creditors to be called. Resolutions thereat, qualifying the original Resolutions to be valid, and taken as part thereof, provided one-third in number and calue shall attend, otherwise invalid, unless confirmed by Commissioner.

When agreement carried into effect, a Meeting to be called. Commissioner to grant Certificate to Petitioning Debtor.

Not to extend to Scotland or Ireland.

THE BANK CHARTER.

As the different enautments of the new Bank Charter Bill come into opera-tion at different periods, we think we shall render a useful service to our readers by specifying the date of the commencement of the operation of each readers by specifying the date of the commencement of the operation of each enactment.

1. The division of the departments of the Bank of England took place "upon the 31st day of August, 1844."

2. All persons may demand notes for gold at £3 17s. 9d. per ounce, "from and after the 31st of August, 1844."

3. Bank of England exempt from stamp duty "from and after 31st August, 1844;" Bank to allow £180,000 per annum, from the same date.

4. No new bank of issue to be allowed "from and after the passing of this act."

5. Existing banks of issue to give relief to the Comment.

Existing banks of issue to give notice to the Commissioners of Stamps

and Taxes of their claim to issue to the extent of their average issue during the twelve weeks preceding the 27th April—such notice to be given "within one month next after the passing of this act."

6. No bank to issue upon an average of four weeks a higher amount than that allowed by the commissioners "after the 10th day of October,

1844."
7. A return of the name of every hank, and of every partner in each banking firm or company, shall be made to the Commissioners of Stamps and Taxes "on the 1st day of January in each year, or within fifteen days there-

8. The agreements that have been made hetween the Bank of England and the bankers named in schedule C shall cease and determine " on the 31st day

the bankers named in schedule C shall cease and determine "on the 31st day of December next."

9. The compensation of one per cent, to such banks shall cease "on the 1st day of August, 1856."

10. Any banking company in London, or within 65 miles thereof, though the number of partners exceed six, may draw, accept, or indorse bills of exchange "from and after the passing of this act."

11. The exclusive privileges of the Bank of England shall continue until the expiration of 12 months notice, to be given after the 1st day of August, 1855.

SAVINGS' BANKS.

The return of the exact sum, received from the Depositors, is here secured to them, together with the interest which may have accumulated, free from Income Tax.

The smallest sum that can be deposited at a time is one shilling. The interest begins in some banks on reaching a pound, and is at the rate of £3 0s. 10d. per Cent. per Annum. No person can deposit more than £30 in each year, nor more than £10 altogether, exclusive of interest, which may accumulate to £200, when it ceases till the sum is reduced below £200. We subjoin an analysis of the chief provisions of the Act of last Session, to amend the laws respecting Savings' Banks.

From and after 20th November, 1841, the Interest payable to the Trustees of Savings' Banks shall be at the rate of £3 5s. per cent.

The depositors on making first deposit are to sign a declaration, and a copy thereof is to be annexed to deposit book.

A punisbment is provided for the case of an Actuary, &0., receiving deposits and not paying over the same to the Managers of the Bank.

The depositor must produce his book at institution.

Annutites are not to exceed £30.

An annuity may be granted to husband and to wife.

Where the desposits and interest do not exceed £50 exclusive of interest, if the wild, &0. be not proved within a month, the money may be paid to the widow or to a party entitled to the effects of the deceased.

Payment may be made on the death of a depositor, being illegitimate, and dying intestate.

Payment may be made to married women of deposits made by them, when The smallest sum that can be deposited at a time is one shilling. The

dying intestate.

Payment may he made to married women of deposits made by them, when

declared to be valid.

In the case of a reference, a barristermay inspect the books, and administer

an oath to witnesses. The bonds given nnder 9 G. 4, c. 92. and 3 and 4 W. 4. c 14. to be sent to the Commissioners for Reduction of National Debt. The bond is not liable to stamp duty

The act repeals part of 9 G. 4. c. 92. as to deposit of rules with Clerk of the Peace

Two written or printed copies of rules are to he submitted to the harrister his certificate.

The barrister is to return one copy to Institution, and transmit the other copy to Commissioners. Provision is made for the adaptation of the provisions of this act to the law

of Scotland.

Provision is made for the adaptation of the provisions of this act to the law of Scotland.

The provisions of this act are to apply to purchasers of annuities.

We subjoin the seventeenth clause entire, it being important to depositors to know the nature of the security required from trustees:—

"And he it enacted, that every Treasurer, Actuary, or Cashier, who shall he intrusted with the receipt or custody of any sum of money subscribed or deposited for the purpose of such institution, or any interest or dividend from time to time acoruing therefrom, and every officer or other person receiving any salary or allowance for their services from the funds of any Savings' Bank or Government Annuity Society, unless he shall have already given good and sufficient security), shall give good and sufficient security, to be approved of by not less than two Trustees and three Managers of such Savings' Bank or Government Annuity Society, for the just and faithful execution of such office or trust; and such security when given by an Actuary or Cashier, or officer or person receiving any salary or allowance for his services as aforesaid, shall be given by bond or bonds with one or more sureties to the Comptroller General of the National Debt Office for the time ceing, without fee or reward; and in case of forfeiture it shall be lawful for the Trustees or Managers for the time being of such Institution to use upon such bond or honds in the name of such Comptroller General for the time heing, and to carry on such suit at the costs and oharges and for the use of the said Institution, fully indemnifying and saving harmless such Comptroller General from all costs and charges in respect of such suit; and no bond to be so given shall he subject to or charged or chargeable with any stamp duty whatever; and such bond of the National Debt.

SAVINGS' BANK TABLE.

The following table will show what a certain weekly contribution paid into a Savings' Bank would amount to in a certain term of years, interest being at £3 8s. fd. per cent. It is a highly instructive table, well worthy of being carefully studied by every individual of the industrious orders:—

	One Shilling per Week.	Ooe Shilling & Sixpence per Week.	per Week.	Three Shillings per Week.	Four Shillings per Week.	Five Shillings per Week.
1 Year, - 2 3 4 5 6 7 8 9 10 11 12 13 14 15	## s. d. 2 12 7½ 5 6 11 8 3 1 11 1 1½ 14 1 3 17 3 4½ 20 7 7 23 14 2½ 27 2 10 30 13 10½ 34 7 4 38 3 3½ 42 1 10 46 3 1½ 50 7 2 54 14 2	£. s. d. 3 19 0 8 0 6 12 4 11 16 12 3 21 2 5 25 15 9 30 12 4 35 12 2 40 15 5 46 2 3 51 12 8 57 6 10 60 7 2 75 13 5 12 82 4 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	#. s. d. 7 8 3½ 16 1 10 24 10 11½ 33 5 11 42 6 10½ 51 14 0 61 7 6 71 7 7½ 81 14 7½ 92 8 7 103 9 1 114 18 9½ 126 15 6 139 0 5½ 151 13 9½	£ s. d. 10 11 1½ 21 9 5 32 15 0½ 44 8 6 56 9 9½ 68 19 4½ 81 17 5 95 4 4½ 109 0 5½ 123 6 1½ 138 I 6	£. s. d. 13 3 10 26 16 6 40 18 7 55 10 3 70 12 0½ 86 4 1 102 6 8 119 0 5 136 5 7½ 154 2 7½
16 17 18 19	59 4 0 63 16 11½ 68 13 1 73 12 5½	88 19 1 95 18 8 103 3 15 110 12 65	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			

COURTS OF REQUEST.

CITY—near Guildhall. Court days, Wed. and Sat. at 11; office hours on other days, 10 till 1. Southwark, Swan. xtreet, Trinity Square, Countdays, Tu. and Fri. at 10; other days, 9 till 2. Tower Hamlets, Osborne-

street, Whiteohapel. Court-days, Tuesday and Friday at 10; other days, 9 till 2. Westminster—Castle-street, Leicester-square. Court-days, Tuesday and Thursday at 11; other days at 10. MIDDLESEX—Kingsgate-street, Holborn. Court-days, Monday and Thursday at 9; other days, 9 till 3.

NEW DOMESTIC REMEDIES.

NEW DOMESTIC REMEDIES.

TOOTH-ACHE.—Caoutchouo, becoming very smooth and viscous by the action of fire, has been proposed by Dr. Rolfis as an excellent remedy for filling hollow teeth, and alleviating the tooth-ache proceeding from that defect. A piece of caoutchouc is to be put on a wire, then melted at the flame of a candle, and pressed, while warm, into the hollow tooth, and the pain will be removed instantly. The cavity of the tooth should first be cleaned out with a piece of cotton. In consequence of the viscosity and adhesiveness of the caoutchouc, the air is completely prevented from coming into contact with the deuuled nerve, and thus the cause of the tooth-ache is destroyed.—Buchner's Repertorium for Pharmacie.

Hoo PING-COUGH.—Dr. Cajetian Wachtl, of Vienna, treated nine children, suffering from hooping-cough, with cochineal, as recommended by certain English physicians. The remedy was administered in all stages of the discase; and its efficacy was so instanteneous and constant, that, notwithstanding the paucity of cases, Dr. Wachtl feels authorised to regard cochineal as a specific in hooping-cough. The following is his manner of exhibiting the remedy:—Take of cochineal, one scruple; sugar, one ounce. Dissolve in six ounces of warm water. The dose is three teaspoonfuls in the twenty-four hours. The solution ought not to be kept longer than thirty-six or forty-eight hours, because after that time it assumes a brown hue, and a sour taste, which render it unfit for use.

hours. The solution ought not to be kept longer than thirty-six of integright hours, because after that time it assumes a brown hue, and a sour taste, which render it unfit for use.

Hoarsenses,—One drachm of freshly scraped horseradish root, to be infused with four ounces of water, in a close vessel, for two hours, and made into a syrup, with double its weight in vinegar, is an improved remedy for hoarseness; a teaspoonful has often proved effectual; a few teaspoonfuls, it is said, have never been known to fail in removing hoarseness.

To Stop a Fit of Coughing.—A correspondent of The London Medical Gazette states, that to close the nostrils with the thumb and finger during respiration, leaving them free during inhalation, will relieve a fit of coughing in a short time. Nervous coughing may be prevented by rubbing pretty smartly with the point of the finger the edge of the lips, the eyelids, or the tip of the nose, when the first desire to cough is felt.

Short Stoht.—This infirmity of vision, a complaint which is rather common among the higher classes of society in all countries, is not unfrequently cured in Russia by the following plan:—The patient is placed with the back part of the head fixed against a wall, and a desk is put before him with a book on it, at such a distance that he may easily read. After a week or two have elapsed, the desk is moved further off, thus gradually increasing the distance until it has been removed to the full extent of ordinary vision, always allowing the patient to acquire the power of reading before the distance is increased.

Apont Pay.—It is recommended that persons of an apontedic tendency.

the distance until it has been removed to the full extent of ordinary vision, always allowing the patient to acquire the power of reading before the distance is increased.

APOPLEXY.—It is recommended that persons of an apoplectic tendency should not use high bedsteads, unless they are protected by a rail, which may be so contrived as to be moveable at pleasure; for, when they make any movement, such as sitting up to cough or spit, and overbalance themselves, the sudden perpendicular descent causes a violent rush of blood to the head, which immediately extinguishes life.

Hydrofubbla.—A copious draught of vinegar, at morning, noon, and night, is said to be a cure for hydrophobia.

To Make Lerches Bite.—The leech which it is intended to apply is to be thrown into a saucer containing fresh beer, and is to be left there till it begins to be quite lively. When it has moved about in the vessel for a few moments, it is to be quickly taken out and applied. This method will rarely disappoint expectation; and even dull leeches, and those which have been used not long before, will do their duty. It will be seen with astonishment how quickly they bite.—Medical Gazette.—From a return made by the Custom-house at Grenoble for the first six months of the present year, it appears that 5,660 800 leeches have been imported into Frauce.

BURNS.—It is stated by the Medical Times, that a Mr. Peppercorne has cured several cases of severe burns of the hand by the application of a single layer of lmt soaked in a saturated solution of carbonate of soda. Mr. Peppercorne conceives that, besides acting as a direct sedative upon the nervous structure of the skin, it may possibly relive pain by ucutualising the acidulous quality of the perspiration as it passes off through the irritated skin. Whether the proposed remedy should have the effect here ascribed to it or not, it is, at all events, worthy of a trial, as the solution can be readily procured, and as readily applied, without the possibility of doing any herm. The carbonate of soda is

used in many culinary operations; and scarcely any one need be at a loss to obtain it.

CORNS.—The following remedy is simple and infallible, and costs nothing in pain or money. Soak the foot affected in warm water for half an hour or so, until the corn is somewhat softened—then pare it down as much as possible, and put a little common soap, say on going to bed, which should be confined to the part affected hy a rag or cotton. In two or three days a complete cure will be effected. A new plaster, of Indian rubber, has been found very efficacious, by bearing off pressure from corns.

BUMION.—Mr. Humpage recommends that the bunion be kept constantly covered with lint dipped in warm water, this being well defended also by oiled silk. The best mode of applying the latter is to cut a strip about half an inch in width, and three or four inches long, turning it round the affected member. The lint should be changed night and morning, and any hardened outifies should be gradually peeled off. When matters are improved, the continued application of the silk will not be necessary, but the oiled alik should be CONSTAN MORBUS OR DYSENTERY.—Take 3d. worth o' isinglass, and simmer it down in about a pint of water on a slow fire, till it is completely dissolved; when this is done, add a little milk and sugar to make it palatable; give the patient half a cupful immediately, and a spoonful every hour afterwards.

RHEUMATISM.—Slight cases of rheumatism are eured in a few days by feeding on a sparagus; and more chornic cases are much relieved account.

atable; give the patient that a cupital immediatory, and a spooning every nour afterwards.

RHEDMATISM.—Slight cases of rheumatism are eured in a few days by feeding on asparagus; and more chronic cases are much relieved especially if the patient avoid all acids, whether in food or neverage. The Jerusalem articholoke has also a similar effect in relieving rheumatism.

MEDICAL EFFECTS OF HOT WATER.—In bruses hot water is most efficacious, both by means of insertion and fomentation; in removing pain, and totally preventing discolouration and stifiness. It has the aame effect after ablow. It should be applied as quickly as possible, and as hot as it can be borne. Insertion in hot water will oure that troublesome and very painful thing called a witlow. The efficacy of hot water in preventing the ill effects of fatigue is too well known to require notice.

IMPURE AIR may be detected by the following simple and satisfactory experiment by Dr. Reid. Inject a apoonful of line into a beer-bottle with water, and place it where suspicion is attached to the quality of the atmosphere, when the presence of impurity will be tested by the appearance on the surface of a white and copious incrustation.

TEST FOR EPSOM SALTS AND OXALIC ACID.—To the suspected mixture, add a few drops of common black writing ink; if the colour remains, it is Epsom salts; but if the ink in a short time turn red, it is oxalic acid.

APPETITE.—The following novel explanation of the causes of renewed appetite is from Professor Liebig's new work on Animal Chemistry. "The cooling of the body, by whatever cause it may be produced, increases the amount of food necessary. The mere exposure to the open air in a carriage, or on the deck of a ship, by increasing radiation and vaporisation, increases the loss of heat, and compels us to eat more than usual. The same is true of those who are acoustomed to drink large quantities of cold water, which is given off at the temperature of the body, 98° 5°. It increases the appetite, and persons of weak constitution find it necessary, by continued exercise, to supply to the system the oxygen required to restore the heat abstracted by the cold water. Loud and long-continued speaking, the crying of infants, moist air, all exert a decided and appreciable influence on the amount of food which is taken."

food which is taken."

Drunkenness.— The following singular means of curing habitual drunkenness is employed by a Russian physician, Screiber, of Brazese-Litewski;—It consists in confining the drunkard in a room, and furnishing him, at discretion, with brandy diluted with two-thirds water; as much wine, beer, and coffee as he desires, but containing one-third of brandy; all the food, the bread, meat, &c., are steeped in brandy and water. The poor wight is continually drunk and dort. On the fifth day of this regimen, he has an extreme disgust for brandy; he earnestly requests other diet, but the desire must not be yielded to, until the poor wretch no longer desires to eat or drink; he is then certainly cured of his penchant for drunkenness. He acquires such a disgust for brandy, that he is ready to vomit at the very sight of it.

To Render Assistance in Cases of Accidents.

acquires such a disgust for brandy, that he is ready to voinit at the very sight of it.

To Render Assistance in Cases of Accident, &c.—We avail ourselves of the observations of an eminent surgeon of this city to make known to our readers the best course to be adopted on finding a sufferer on the road having a fractured or dislocated leg, or in other cases of emergency. Let him be kept on the ground until a couch, door, or gate can be procured, for in raising him up he may die from fainness or loss of blood; when a gate, hurdle, or board is procured, place it alongside him; cover it with a bed or straw, and pillows, and let men convey him home or to a neighbouring house. Send a discreet person to his surgeon and to his home who can state the nature of the accident. On no account put him into a vehicle; let him be borne home by men, for the motion of a carriage midth cause splintered bones to fatally wound blood-vessels in contact with them Fits. If a person fall in a fit, let him remain on the ground provided his face be pale, for should it be fainting or temporary suspension of the heart's action, you may cause death by raising him upright, or bleeding; but if the face be red or dark-coloured, raise him on his seat, throw cold water on his head immediately, and send for a surgeon and get s vein opened, or fatal pressure on the brain may ensue.

In hanging or drowning, expose the obest as quickly as possible, and

In hanging or drowning, expose the ohest as quickly as possible, and throw the coldest water you can procure plentifully over it, whilst the body is

kept in a sitting position.

Children in Convulsions. Deluge the head with cold water and put the feet into warm water, till medical assistance can be fetched.

Poison. Give an emetic of a tea-spoonful of mustard flour in a tea-cupful of warm water every ten minutes, till vomiting ensue or medical assistance can

warm water every ten minutes, the voluming close of ineuteal assistance can be procured.

Burns or Scalds. Let the burnt part be bathed in a mixture of equal parts of turpentine and olive, or linseed oil, with a leather, till the pain abates; then dress it with common cerate, and defend it from the air.

By a proper application of these simple rules life might often be saved, whilst it is well known to medical gentlemen that what is often kindly though injudiciously done, bastens death.

injudiciously done, hastens death. Worcester.

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Worcester.

MANAGEMENT OF BLISTERS.—Dr. Robertson gives the following directions for the management of blisters, as the result of nearly seventeen years' experience: the blistering plaster should be spread thinly on paper or linen, not sprinkled over with powdered cantharides on the aurface; but instead thereof, a few drops of olive oil rubbed on it and allowed to remain. Used in this way, he says, the blister acts speedily, and without causing irritation: with him it never produces strangury. He objects to a b later spread upon leather, because the leather, by the heat of many pa.cs of the body, becomes dry, partially crisp, and with difficulty adheres to the skin, and thereby prevents it from acting well and generally over the whole part intended to be blistered. The blister should be spread thinly, because the outer surface only is efficient; and when it is used in a thick layer, it becomes irregular, and consequently purtal in its operation. The powdered cantharides should not be sprinkled on it, because they will not add to its efficiency, as they act but slightly on the skin: but the active principle of the Spanish fly being soluble in olive oil, affords a reason for the use of the oil on the surface of the blister. Dr. Robertson concludes by remarking, that every one can make this blister for himself, of the commonest materials at a very trifling expense, and, if this be any recommendation, it will act three, four, or six times, if uninjured, and the oil gently renewed on its surface.

Death caused by prussic acid, says a German paper, is only apparent; life is immediately restored by pouring acetate potash and common salt, dissolved in water, on the head and spine.

MUSHADOMS.—According to Chausarel, the application of vinegar, in cases of poisoning by mushrooms, is iuadvisable, because the active principles of these plants are dissolved by it, and the parts, already inflamed by the action o

WATER THROUGH LEADEN PIPES.—On an analysis of some water from one of the departments of the Royal Establishments, at Windsor, heing made, it was found that in the first sample, which was taken from the pure spring, the water was perfectly free from any trace of lead. This spring, heing at some considerable distanca from the place where it is required, viz., the kennel of her Majesty's hounds, it is couveyed thence through pipes of lead; on the second sample (mind, taken from the pipes!) being submitted to analysis, the quantity of lead contained therein amounted to 1-312 grs., or approaching 1½ grs. of carbonate of lead to the imperial gallon of water; there can, therefore, ha but strong grounds for presuming that the disease called kennel lameness in sporting phraseology, and which now rages amongst the hounds there, is caused by the quantity of lead taken into the stomach of the poor animals; and what gives us a greater desire to promote some attention to the subject is the fact that, not only the canine race, but the human also are sufferers, as in mora than one case a species of paralysis, and effects similar to the painter's colic, has attacked the attendants at the kennel.

kennel.

COPPER POISON occurs from the use of copper saucepans imperfectly tinned. If they be put away damp, or if a boiling-copper be left wet, they will become coated with poisonous orust, or verdigris. Several instances are related of whole families heing poisoned by partaking of made-dishes allowed to stand and get cold in copper vessels. It appears that the acid contained in stews, as lemon-juice, though it does not dissolve copper by being merely hoiled in it a few minutes, nevertheless, if allowed to cool and stand in it for sometime, will acquire a sensible impregnation of poisonous matter, as verdigris, or the green band which lines tha interior of the vessel. In preparing food or preserves in copper, it is not till the fluid ceases to cover the metal, and is reduced in temperature, that the solution of the metal begins. Unctuous or greasy solutions are, however, most liable to hecome thus impregnated with verdigris. Sir Humpbry Davy asserts that weak solutions of common salt, such as are daily made by adding a little salt to hoiling vegetables and other eatables in our kitchens, act powerfully on copper vessels, although strong ones do not affect them.

ones do not affect them.

ZINC MILK VESSELS —The following shows the danger and the folly of tha practice of keeping milk in zinc bowls—a custom which has lately become very prevalent: these articles being sold with the recommandation of a larger quantity of cream heing produced, owing to the galvanio action. "I would soarcely have believed," says L. Elanes, of Berlin, "that zinc vassels would again have come into use for alimentary purposes, as Vauquelio, forty years ago, proved that such were certain, after a short time, to hold a certain quantity of zinc in solution. I have found by experiment, that a solution of sugar which had stood only a few hours in the summer in a zinc vessel, contained a considerabla amount of zinc salts. It has often been stated that the cream will separate more easily from milk, if the latter he kept for a short tima in a zinc vessel. As, however, it is known that milk will turn acid much sooner than a solution of sugar, it is the more to he apprehended that some zinc will ba dissolved, and such zinc will he tha mora noxious, as it is well known that even a small amount of zinc will oause spasmodic vomiting."—Pharmaccutical Journal.

GILT GINGERBERAD is poisonous, and children should he cautioned against eating the spurious gold; for it is nothing more than copper-plates with celamina, hammered out into leaves, in Germany, and sold very cheap in this country, under the name of Dutch gold, or Dutch metal. Common lozenges are freely adulterated with chalk, and coloured with poisonous substances. Last Twelfth Day, four children narrowly escaped poisoning, at Kensington, by eating the ornaments of a twelfth cake. ZINC MILK VESSELS -The following shows the danger and the folly of

Kensington, hy eating the ornaments of a twelfth cake.

LUCIFER MATCHES should be kept out of the way of childreu, who have heen known to eat the composition, from its sweet taste, and others to be poisoned by the phosphorus contained in it.

COFFEE,—Chicory is detected by shaking the suspected articla with cold water, in a glass vessel; if the coffee be pure it will swim and give little or no colour to the liquid, but if chicory be present it sinks to the hottom, and communicates a pretty deep red tint to the water. Roasted corn may be detected by sdding tinctura of iodine to a cold decoction of the suspected ooffee, which will produce a blue colour in the liquid.

MUSTARD.—The inferior varieties of mustard are often composed, almost entirely, of flour, turmeric, ginger, and cayenne pepper. Turmerio is detected by a solution of potash, soda, or ammonia, which strikes a deep brown colour when the mustard is diffused in water. Flour is discovered by iodine, which when added to a decoction of mustard, gives it a deep hlue colour. When the quantity of flour is large, it forms a tough paste with water.

SAUSAGES, made in a peculiar way, are much used in Wurtemberg. When ill prepared, they become poisonous, and their effects are invariahly fatal. The patient gradually dries up into a sort of mummy, and, after weeks, or months of misery, he dies. But there is no poisonous substance to he detected in the sausage. It is, according to Professor Lieling, in a peculiar state of fermentation, which is not checked by the action of the stomach, and which is, unfortunately, communicated to the blood. It never ceases till every part coapable of solution has been destroyed, and death, of course, must follow. But, as it appears that the poisonous sausages may be rendered quie afe by hoiling, and by other simple means of arresting fermentation, we may hope that the true theory of the poison will lead to a successful treatment of this frightful accident, which, unhappily, is very frequent.

FISH POISON is rare, except when the mussel or the oyster is in an unhealthy state, or beginning

some fresh soap-hoilers' lees, and he instantly applied, no injury whatever will occur to the person or clothes.

Relief from Excessive Heat.—By placing a gas-light within the chimney, immediately over a fire-place, it will greatly tend to moderate tha heat of the apartment. A lighted lamp suspended in the chimney will have a similar effect; and even a lighted candle set in the fire-place of a hed-room will render it more comfortable during hot weather.

Never enter a sick room in a state of perspiration, as the moment you hecome cool, your pores absorb. Do not approach contagious diseases with an empty stomach, nor sit between the sick and the fire, because the heat attracts the thm vapour.

RECENT DOMESTIC INVENTIONS.

RECENT DOMESTIC INVENTIONS.

The American Fire-Place, is stated to save room and fuel, to furnish a convenient apparatus for cooking, and to send hot air into the interior of a room, avoidiog, at the same time, the steam usually arising from cooking stoves. The fire is kindled in a metal hox constructed in the hearth; an air-chauther is made underneath the fire-hox, and a metal plate rises perpendicularly hehind it, so as to form a flue for carrying off the smoka. An opening is made in the box to admit fuel, and tubes are fixed in communication with it, to let heated air into the room. When employed for cooking, the utensils must he placed upon the top plate of the fire hox, in which holes are made for the purpose of emitting heat. The inventor considers that he combines the convenience and ecouomy of a close stove, with the pure air and perfect ventilation attained by open fire grates.

SILVESTER'S IMPROVED OPEN FIRE GRATE, remedies the defect in grates commonly in use—of not affording sufficient warmto to the lower part of rooms. This is done by the fire heing made upon the floor, in front of which, in place of the hearth, are radiating bars confined by a semi-circular front: these bars hecome conductors of heat, and each har heing hollowed underneath, allows of the free passage of air; and the ashes fall into a recess truck under the partition bars forming the fire-place. The chimney, or fire-place opening, is made tight to the opening of the grate in front. The smoke is discharged vertically, and is screened in great measure by moveable shutters resting on centres at each end in a rack, so that the chimney opening may be adjusted in level and area at pleasure. Tha chamher part not occupied on each side hehind the grate-front is closed at the upper part from any communication with the chimney. This portion of tha fire-place recess heing open to the room, the sides of the chimney and mass of heated matter of the body of the grate hecome an important additional warming surface. We have, therefore, in this grat

BURBIDGE AND HEALEY'S SYLVESTER COOKING APPARATUS, is remarkable for its simplicity, little waste of fuel, and radiation of the heat. It comprises a holier, oven, and open roasting hars, to which may he added saucepans, &c. When not wanted for roasting, the fire-place is shut up; and thue, are shut up, though the fuel in the fire-place keeps ignited, but hurns no faster than in an Arnott stove; so that tha ebullition of the boiler is kept under. An apparatus of the smallest size will roast a joint of twenty pounds; and the oven has a passage of air through it, so as to produce the difference hetween roasting and baking.

BATH HEATEN BY GAS.—Dr. Fyfe suggests, that where a hath is required in a bed-room, it may easily be heated by gas, by attaching a flexible pipe to a tube in the room, so that it will supply from 30 to 40 feet of gas per hour; six rose-jet burners, with 16 holes each, will be sufficient. In his trials, Dr. Fyfe used a hath, in which were put 24 gallons of water at 50°; hencath the batb, and at a little distance from it, there was passed a tube of about two inches diameter, with six rose-jet hurners attached to it. The gas was kindled, and in three quarters of an hour, the water was hrought to 100°; gas consumed, 17 feet; cost, nearly two-pence. BURBIDGE AND HEALET'S SYLVESTER COOKING APPARATUS, is re

JEFFREY'S PNEUMATIC STOVE, projects holdly into the room, so as vastly to increase the field of radiation, instead of the fire haing immured, and three-fourths of the heat lost up the chimney. This important point of hringing the fire forward, without risking the entrance of smoke into the room, is effected by tunes ranged helind the fire, and which, by communicating with an air-hox below, throw into the room plenty of warm fresh air. The sunoke current, passing through the intervals of the tunes, warms the air inside, and it is discharged into the room over tha chimney-piece.

THE LUTON STOVE, consists of one hox or chamber enclosed within another; and the fuel heing placed in the inner chamber, which has fire-hars at tha hottom, the atmospheric air introduced from ahove, descends down, and the products of combustion pass away by side passages to the chimney. Heinke's (Arnott's) Stove, costs hut twopence per day for fuel, and when onca charged, will not require any more attention for ten hours, as the stove regulates itself by the thermometer.

Grean's Terra-Cotta Stove, generally resembles Arnott's Thermometer Stove; hut, in place of making the outside of the stove of iron, Mr. Green substitutes a cylinder of terra-cotta, or aarthenware. Two or three consecutive cylinders of earthenware are also introduced between the fire-pot and the external case, so as to equalize the heat as much as possible, and pravent any

substitutes a cylinder of terra-cotta, or aarthenware. Two or three consecutive oylinders of earthenwara are also introduced between the fire-pot and the external case, so as to equalize the heat as much as possible, and pravent ary danger of oracking the outer case of the stove.

FIRE FROM STEAM-WARMING—Mr G. Gurney states, from experiment, that steam under high pressure is partially decomposed, and that in a state of gaseous vapour, it is capable of heating the iron flues to such an extent that linen is charred, gunpowder fired, and metal fused by it. Mr. Gurney suggests the use of fusible metal in some part of the pipes, as a preventive of fire; for, melting when the flues become too highly heated, it will allow the escape of the vapour, and, of course, assist in cooling the pipes.

Cooking by Gas was successfully practised. Sir John Rohison, hy passing a ourrent of gas, mixed with atmospheric air, through a wide vertical tuhe, having its upper end covered with wire-gauze, and hy kindling the mixture as it escaped through the interstices, formed a convenient stove for culinary purposes; and Sir John had his kitchen fitted with stoves on this principle. Another of the most practicable modes may be described as follows:—A large hurner, either round or oval, is to be provided, composed, like the argand hurner, of a great number of small jets of flame. In the midst of these jets is fixed a perpendicular spit, to hold the meat to he roasted. Over the flama must be placed a cover of sheet iron, big enough at hottom to surround the jets, and contracted towards the top, so as to bring all the heat of the gas as near as possible to the meat to be roasted. This cover resembles a large funnel turned upside down, the pipe of which forms a chimney to let out the gas; the heat of which is then made to boil water, which is placed in a tin vessel over the funnel-chimney, and which may be divided into two compartments, to contain meat and vegetables, to steam potatoes, &c. Such is the ease and safety of its operation, that p

A VERY SIMPLE KNIFE-CLEANER may be made of two boards, twenty inches long, six inches broad, and one inch thick, joined together, but not quite close, hy a hinge; two pieces of buff or belt leather are stretched over the interior surfaces, and nailed on the exterior ones; and a handle assists in holding the apparatus steady. In using it, lay powdered Flanders brick, or any similar dust, on the lower leather; shut the boards together, lay the left arm on the upper board, holding the handle; put the knife, well wiped from grease, between the leathers, and four or five rubs backwards, not sideways, will produce a heautiful polish on both sides. The shoulders and hack may be polished on the part of the leather turned over.

THE AMERICAN SCRUBBING-BRUSH is worked backwards and forwards by a lever, operating in the manner of a pump-handle. A flat board, on which the operator stands, is placed upon the floor on castors, and from this rise two uprights to sustain the pin that is the fulcrum of the lever. To the lower end of this lever, the scrubbing-brush is attached.

KALSOMINE, is a new and inodorous paint, invented by Miss Fanny Corbeaux. It is free from any offensive smell, dries in a few hours, and is said to be more durable than oil paint, more agreeable to the eye, and not prejudicial to the health: a room painted with it one day, may be inhabited the next. A VERY SIMPLE KNIFE-CLEANER may be made of two boards, twenty

NEW WATER COLOUR.—Alady at Palermo wishing to make a drawing of

NEW WATER COLOUR.—Alady at Palermo wishing to make a drawing of the beautiful Bourgainvilloea Spectabilis, was at a loss for a rose-colour that would match it. It struck her, however, that the juice of the Opuntia fruit would do, and upon trial she found it yield a most beautiful rose-colour, which was as readily worked as if it had been prepared in a colour-shop; and now, after a year, it is as fresh as ever. It would be worth while to get the Sicilians to make up the juice of the Opuntia iuto cakes.

Electro Gilding and Plating have already produced some very surprising results. "There is an establishment in London (Messrs. Elkiugton's) and we believe others, both in London and Birmingham, where a dazzling and brilliant assemblage of candelabra, candlesticks, tripods, salvers, cones, vases, cups, plates, and other articles of table furniture is to be seen, all coated with a surface of pure gold and silver by the electro process. There may be other instances more useful, but we doubt whether there is any more striking than this application of electricity. It is known that gold looks better when laid on silver than when on any other metal, and hence the value and beauty of 'silver-gilt' articles. The same, we believa, is true with regard to electro-gilding." The applications of the electro process to domestic manufactures are already very numerous; for, as things at present are, a person may, as Mr. 'silver-gilt' articles. The same, we believa, is true with regard to electro-gilding." The applications of the electric process to domestic manufactures are already very numerous; for, as things at present are, a person may, as Mr.
Smee remarks, "euter a room by a door, having finger-plates of tha most
costly device, made by the agency of the electric fluid. The walls of the room
may he covered with engravings, printed from plates originally etched by galvanism, and multiplied by the same fluid. The chimney-piece may be covered
with ornaments made in a similar manner. At dinner, the plate may hava
devices given by electrotype engravings, and the salt-spoons gilt by the galvanie fluid."

State Engrythus — The use of slate as a meterial for furniture healpean.

NANIC HUID.

SLATE FURNITURE.—The use of slate as a material for furniture has been recently introduced, and is increasing. Tables and sideboards, wash-hand stands, toilets, wine-coolers, filters, and any similar articles, are now made of this material. Slate is also manufactured into panels for doors, fingerplates, paper weights, inkstands, &c. It is susceptible of much ornament, and is found to bear colours and gilding remarkably well.

AMERICAN CLOCKS.—A correspondent of the Hartford Journal, from Bristol, writes: "The amount of capital employed in this branch alone is some three or four hundred thousand dollars, and the business gives employment to nearly four hundred mechanics. The manufacture of clocks has greatly increased within the last five years, although for fifteen years prior probably one million were made and profitably disposed of. We have every facility for manufacturing, and the vast improvements recently effected in machinery have done wonders for the business. The division of labour is well understood, and carried out to a nicety, otherwise it would be impossible to manufacture and afford brass mahogany cased clocks for the low price of three, four, or five dollars each, which is now done. More than ten thousand have heen sent to England alone within the last eighteen months."

Heating By Gas.—Sir John Robison devised a method of generating leat by hurning gas through a tube of about six inches diameter, open at the lower end, the top end being covered by wire-gauze, similar to that of the Davy safety-lamp. This process Sir John has used in his house for several years, successfully, as a substitute for coal. The wire gauze is liable to be destroyed under a long-continued intense heat; but this may be obviated by sprinkling a small quantity of sand upon it. Yet, heating by gas is elsewhere stated by Sir John Robison to be most expensive, the least efficient, and with oue exception, the most insalubrious mode of warming apartments that can be recorded to resorted to

CHLORIDE OF LIME, moistened with water, and applied to ink-spots on silver, &c., will remove them far more effectually than " salt of lemons."

A NEW STYLE OF PAPER-HANGING has been introduced at Liverpool,

A New Style of Paper-Hanging has been introduced at Liverpool, from Switzerland. The character of the design is Florentine; the ground-work is white satin; the walls are divided into compattments, by rich gold-coloured styles, representing intricate carving; the panels are niches, with drawings of deer, lions, swans, &c., each forming a complete picture in gorgeous gold borders, somewhat in the Louis Quatorze style; the alternate panels are filled with filagree work, interspersed with flowers and gems; and altogether of exquisite design and execution. An exceedingly rich border runs round the top and bottom of the Then Almoings, panels, imitative oak carvings, &c. are of beautiful design; indeed, it is difficult to discover that some of the patterns are not carvings on wood—so closely imitated are the chisci mark, the grain of the wood, the undercutting, and its assimilation of colour, to the best oak and walnut carving of the Middle Ages. The hangings, friezes, heads, fruits, &c. in the various rich and elaborate styles fo decoration prevalent in Spain, Italy, France, and Germany, as well as our own "Elizabethan," are here deceptively imitated. The cost of these ornaments is about half the price of carvings in wood. Esquilant's leather architectural and other ornaments, as fruits and flowers, are prepared in metal moulds, and socked in ments, as fruits and flowers, are prepared in metal moulds, and soaked in varnish, and then forcibly cold-pressed into the mould.

Vignoles's Carpet Targester, is made on the principle of the ancient mosaics, being composed of innumerable transverse sections of woollen threads. No painting, no colouring is used; all the effect is produced by ends of worsted about one-eighth of an inch long standing vertically, one end being seen, and the other cemented by Indian-rubber to a clotb. From the facility of reproduction, this fabrio is likely to come into general use for carpets, rugs, curtains table and chair covers, &c.

DOMESTIC HINTS.

Gelatine.—There has lately occurred in Paris a controversy on the use of the Gelatine of bones for hospital soup, as recommended by D'Arcet; and the most contradictory opinions as to its qualities are daily published. Professor Liebig has, we think, decided this question. He has shown that Gelatine cannot yield blood, and that by itself, therefore, it cannot support life. But he supposes that it is dissolved in the stomach, and, being conveyed in the blood to every part of the hody, acts as nutriment to the gelatinous membranes and bones alone. This ingenious idea explains both how Gelatine mixed with other animal matter forms a good diet, and how it is peculiarly adapted for the sick and convalescent, in whom it acts by giving nutrition to the gelatinous tissues, and so sparing much of the energy of the enfeebled digestive system, which is thus not consumed in producing Gelatine for these tissues, but is expeuded in the digestion of sanguiferous nourishment. We tissues, but is expeuded in the digestion of sanguiferous nourishment. We can now readily credit the statement of D'Arcet, who has shown that in all the hospitals where the Gelatine of bones has been used as a principal, but not the only article of animal food, the patients relish it, the success of the treatment has been much increased, and the period of convalescence on the

not the only article of animal food, the patients relish it, the success of the treatment has been much increased, and the period of convalescence on the average much diminished. Now that we possess what appears to be the true theory of the action of Gelatine, it is to be hoped that the prejudice, previously very natural, which exists in this country against its use, may be overcome; and that our hospitals may participate in the benefits of D'Arcet's benevolent system, which, when successfully conducted, has likewise the advantage of superior economy.—Quarterly Review of Liebig's new Work on Animal Chemistry.

MILKING OF COWS.—A "Small Tenant Farmer" was induced to try the milking of a cow three times a day, viz., morning, mid-day, and night; and found thatit answered better in hot weather, than under the old system of milking twice a day. More milk is obtained; and the cream on the mid-day's milking is twice as thick as on that milked at night. Turnips reuder the milk lighter, and of more easy digestion, than the common fodder; while beet-root makes it extremely rich and substantial. The convalescence of the Count of Paris, the infant grandson of Louis Philippe, is attributed to the milk of a cow, fed on turnips, having been substituted for that of his nurse; the latter having been found to be not sufficiently nutritious FEDING OF POULTRY.—Professor Gregory, of Aberdeen, in a letter to a friend, observes—"As I suppose you keeppoultry, I may tell you that thas been ascertained that if you mix with their food a sfficient quantity of egg-shells or chalk, which they eat greedily, they will lay, cateris paribus, twice or thrice as many eggs as before. A well-fed fowl is disposed to lay a vast number of eggs, but cannot do so without the materials for the shells, however nourishing in other respects her food may be; indeed a fowl fed on food and water, free from carbonate of lime, and not finding any in the soil, or in the shape of mortar, which they often eat off the walls, would lay no eggs at all with the heat wi

in an iron vessel, from which the air is exhausted by an air-pump, brine being let in from another vessel; it is then drawn off by the air-pump, and more brine injected by a forcing-pump; and in fifteen minutes the meat is

LEMONS-HIMALAYAN METHOD OF KEEPING .- Pluck the fruit when it LEMONS—HIMALAYAN METHOD OF REEPING—Fluck the fruit when it has attained its full growth, but is not quite ripe. It is then buried in deep holes in the ground, lining the pits, and covering the fruit with dry leaves. In this situation, it attains maturity, and if not bruised in packing, retains its form and freshness for a considerable period.

KITCHEN GARDEN ECONOMIES.—A very delicate vegetable, quite equal to Seakale or Asparagus, and of a taste intermediate between the two, may be easily raised in any quantity by any one who has a few square yards of garden ground, at several different times during the winter and spring, according as the succession of crop is required. Plant ten or twelve Turnips (any delicate kind) as closely as possible, and cover them with a box or Seakale pot: heap fermenting stable litter over and around, as for Seakale; and in about the same time or a fortnight more, a crop of blanched Sprouts will make their appearance. The crowns of the Turnips should not of course have been removed too closely. In dressing them for table, when they are about half done, pour away the water and give them some fresh; when cooked, serve them up with melted butter on toast.

STEAM-BAKED BREAD.—It has been known for some time at Vienna, that if the hearth of an oven be cleaned with a moistened whisp of straw, hread baked therein immediately afterwards presents a much better appearance, the crust having a heautiful yellow tint. It was thence inferred that this peculiarity must be attributed to the vapour, which, being condensed on the roof of the oven, fell back on the bread. At Paris, in order to secure with certainty so desirable an appearance, the following arrangement is practiced:—the hearth of the oven is laid so as to form an inclined plane, with a rise of about Illinches in three feet and the arched roof; is built lower at the end recovery. Il inches in three feet, and the arched roof is built lower at the end nearest the door, as compared with the furthest extremity. When the oven is charged, the entrance is closed with a wet bundle of straw. By this contrivance, the steam is driven down on the bread, and a golden-yellow crust is given to the bread, as if it had been previously covered with the yolk of au egg.

the bread, as if it had been previously covered with the yolk of an egg.

INDIAN PREPARATION OF SALMON.—The salmon are cured and packed in a peculiar manner. After having been disembowelled, they are exposed to the sun on scaffolds erected on the river banks. When sufficiently dry, they are pounded fine between two stones pressed into the smallest compass, and packed in baskets or bales of grass matting, about two feet long, and one in diameter, lined with the cured skin of a salmon. The top is lkewise covered with fish skins, secured by cords passing through holes in the edge of the basket. Packages are then made, each containing twelve of these bales, seven at bottom and five at top, pressed close to each other, with the corded side upward, wrapped in mats, and corded. These are placed in dry situations, and again covered with matting. Each of these packages contains from ninety to a hundred pounds of dried fish, which in this state will keep sound for several years.

BACON.—As it is of some importance to cottagers to know how best to preserve their bacon, we have borrowed the following receipts from an old lady whose bacon is never rusty. For the bacon of a large pig take 14 lbs. of common salt, I lb. of saltpetre, and ½ lb. bay salt; with this mixture rub the bacon thoroughly, and then put it down tightly into a tub kept expressly for the purpose, having a lid to fit tightly on, and also an inner cover, which rests on the bacon, and presses it down as it diminishes. Before the salt is used it should be damped with a quart of cold hoiled water. If these precautions are attended to, the bacon will preserve its colour and good flavour for 18 or 20 months. As soon as the weather becomes hot, the brine should be poured carefully out of the tub, he boiled and well skimmed, and when cold be again poured over the bacon. BACON.—As it is of some importance to cottagers to know how best to

DOMESTIC YEAST .- Persons who are in the habit of making their own DOMESTIC YEAST.—Persons who are in the notion making their own bread can easily manufacture their own yeast by attending to the following directions:—Boil one pound of good flour, a quarter of a pound of brown sugar, and a little salt, in two gallons of water, for an hour; when milkwarm, bottle it, and cork it close, and it will be fit for use in twenty-our hours. One pound of this yeast will make eighteen pounds of bread.

HISTORICAL MEMORANDA.

1. Battles, Sieges, Captures; 2. Executions, Assassinations, &c.; 3. Remarkable Fires; 4. Occurrences Domestic; 5. OCCURRENCES POLITICAL.

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1. Battles-Sieges-Captures.
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Aboukir, March 18, 1801.
Acre, siege raised, May 20,1799.
Agincourt, Oct 25, 1415.
Albuera, May 16,1811.
Alexandria, Abercomby, March 21, 1801.
Alaises, Polley, Aug. 92, 1815. Algiers, Pellew, Aug. 27, 1816.
taken by Freoch, July 5 1830.
Arcola, Nov. 19, 1796
Assaye, Sept. 23, 1803.
Austerlitz Buonaparte, Dec. 1, 1805.
Badajos, Wellington, April 6, 1812.
Bannockburo, June 24, 1314.
Bayonne, March 19, 1794.
Belgrade, siege of, Aug. 1717.
Belleisle taken, June 7, 1761.
Belke's and Van Tromp's, June 29, 1652.

--- Feb 10 and 18, 1653. -, July 31

1653

Blenheim, Marlborough, Aug. 2, 1704 Borodino, or Moscow, Sept. 7, 1812. Bosworth Field, Aug. 22, 1485. Bosoawen's, with De la Clue, Aug.

Fontenoy, April 30, 1745.
Friedlaod, June 14, 1807.
Gibraltar, taken, July 23, 1704.
———, siege raised, Sept. 17, 1782.
Guadaloupe, Jan. 24, 1759.
Halidon Hill, July 19, 1334.
Hastings, Oct. 14, 1666.
Hawke and Comfans, Nov. 20, 1759.
Hexham, April 25, 1464.
Hohenlioden, Nov. 3, 1800.
Howe's, off Ushant, June 1, 1794.
Jaffa, Sept. 7, 1191.
Jamaica, ceded, May 7, 1665.
Jeraeppes, Nov. 6, 1792.
Jena, Oct. 14, 1806.
Jersey, taken, Jao. 6, 1781.
Ismael, by Suvarrow, Dec. 22, 1790.
Kilkenny, siege, 1650.
La Hogue, May 19, 16692.
La Rochelle, Feb., 1573.
Leyden, 1574.
Leipsic, Oct. 16, 1813.
Lincelles, Aug. 18, 1793.
Limerick, aiege, June, 1651.
Londonderry, siege, 1689.
Lodi, May 10, 1796.
Lutzen, May 2, 1813.
Maida, July 4, 1806.
Malta occupied by English, Sept. 5, 1800.
Marengo, June 14, 1800.

1800.

Marengo, June 14, 1800, Minden, Aug. 1, 1759, Naseby, June 14, 1645, Narva, Nov. 30, 1700. Nasely, June 14, 1645.
Narva, Nov. 30, 1700.
Navarin, Codrington, Oct. 20, 1827.
Neville's Cross, Oc. 17, 1346.
New Orleans, Jan. 8, 1815.
Nile, Nelson, Aug. 1, 1798.
Orleans, Oct. 12, 1428.
Orleans, Oct. 12, 1428.
Orleans, Oct. 13, 1814.
Oudenarde, June 30, 1708.
Pampeluna, Oct 31, 1813.
Paris entered by Allies, March 31, 1814.
Parna, July 12, 1799.
Poictiers, Sept. 19, 1356.
Pondicherry, Oct. 17, 1778.
Poston Pans, Sept. 21, 1745.
Preston Pans, Sept. 21, 1745.
Pultowa, July 8, 1709.
Pyramids, the, July 21, 1798.
Pyrenees, the, July 23, 1813.

Quebeo, Sept. 13, 1759. Ramilies, May 23, 1706. Rodney, with De Grasse, April 12, 1782.

Rodney, with De Gråsse, April 12, 1782.
Salamanca, July 22, 1812.
Salamanca, Siege, July, 1809.
Saumarez, Spanish fleet, July, 1809.
Saumarez, Spanish fleet, July, 1801.
Seringapatam, May 4, 1799.
Sinolensko, Aug. 17, 1812.
Southwold Bay, May 28, 1672.
Spanish Armada, July 29, 1588.
Spanish Fleet, April 30, 1657.
St. Sebastian, Sept. 8, 1803.
St. Viucent, Jerus, Feb. 14, 1797.
Talavera, July 27, 1811.
Tewkesbury, May 4, 1471.
Toulouse, April 10, 1814.
Tournay, May 6, 1794.
Trafalgar, Oct. 21, 1805.
Ulm, June 21, 1800.
Viueira, Aug. 21, 1808.
Vittoria, June 21, 1813.
Wagram, July 6, 1809.
Warren's Engagement, March 13, 1806.
Waterloo, June 18, 1815.

Waterloo, June 18, 1815. 2. Executions-Assassinations, &c.

André, Major, Oct. 2, 1780. Armagnacs, at Paris, June 12, 1418. Artaveldt, Jacob, at Ghent, July 26, 1345.

1345. Beoket, Archbishop, Dec. 29, 1170. Blantyre, Lord, Sept. 27, 1830. Boleyn, Anne, May 19, 1536. Bruce, Thomas and Alexander, 1307. Buckingham, D., by Felton, Aug. 23, 1698

Buckingham, D., oy readd, ang. 1628. Byng, Admiral, March 14, 1757. Catherine Howard, Q., Feb. 13, 1540. Capo D'Istrias, Count, Oct. 9, 1831. Charles I., K. of England, Jan. 30, 1649.

1649.
Charles XII., K. of Sweden, 1718.
Colignaes, the, at Paris, Aug. 24, 1572.
Cook, Captain, Feb. 14, 1779.
Cranmer, Archbishop, Mar. 21, 1555.
Cromwell, Thomas, July 28, 1540.
Despard, Colonel, Feb. 21, 1803.
Dodd, Rev. Dr., June 27, 1777.
Drogheda Massacre, Oct. 11, 1649.
Duke de Berri, Feb. 13, 1820.
Edward II. K. of England, Sept. 21.

Edward II., K. of England, Sept. 21, Edward V., K. of England, June 22,

1488. Enghien, Duke d', Maroh 21, 1804. Essex, R., Earl of, Feb. 25, 1601. Fauntleroy, Nov. 30, 1824. Grey, Lady Jane, Feb. 12, 1554. Guy Fawkes, Jan. 31, 1606. Gustavus 111., K. of Sweden, March 16, 1209.

16, 1792 Hastiogs, Lord, June 13,1483. Henry 1V., K. of France, May 14, 1610.

1610.

Hofer, Andrew, shot, Feb. 20, 1810.

Hoser, Andrew, shot, Feb. 20, 1810.

Luskisson, Mr., by accident, Sept. 15, 1830.

Joan of Arc, May 30, 1431.

Kleber, Gen., in Egypt, June 14, 1800.

Laud, Archhishop, Jan. 10, 1645.

Louis XVI., Jan. 21, 1793.

Lovat, Lord, April 9, 1747.

Mary, Queen of Soots, Feb. 8, 1587.

Mornouth, Duke of, July 15, 1685.

More, Sir Thomas, July 6, 1535.

Murat, King of Naples, Oct. 13, 1815.

Ney, Marshal, Aug. 16, 1815.

Park, Mungo, in Africa, 1804.

Paul, Emperor of Russia, March 24, 1801.

1801. Peter Ill., of Russia, July 17, 1761.

Peter 111., of Russia, July 17, 1761.
Percival, Spencer, May 11, 1812.
Perkin, Warbzck, Nov. 16, 1499.
Protestants, at Paris, Aug. 24, 1572.
Raleigh, Sir Walter, Oct. 29, 1618.
Rudley and Latimer (Bps.), Oct. 16, 1555.
Rizzio, David, March 9, 1566.
Robespierre, Aug. 28, 1794.
Russeh, Lord, July 21, 1683.

W., murdered, May 5, 1840.

1840.
Sharpe, Archbishop, May 3, 1679.
Sidney, Algernon, Dec. 7, 1683.
Somerset, Duke of, Jan. 22, 1552.
Stafford, Viscount, Dec. 29, 1683.
Strafford, Earl, May 12, 1641.
Thistewood and others, 1820.
Wall, Governor, Jan. 28, 1802.
Wallace, Sir William, Aug. 23, 1305.
Wexford, Massacre at, Oct. 12, 1649.

3. Fires, Remarkable. Argyle Rooms, Feb. 5, 1830.

Astley's Amphitheatre, 1794, 1803, and 1811.

Camberwell Church destroyed, Feb. 7, 1841.

7, 1041. Canton, 10,000 houses, Oct., 1833. Goveut Gardeu Theatre, Sept. 20,1808. Custom House, 1666, and Feb. 12,

1812.
Devonport Dock Yard, Sept. 27, 1840.
Drury Lane Tbeatre, Feb. 24, 1809.
Dublin, Aug. 10, 1833.
Edinburgh; June and Nov., 1824.
English Opera House, Feb. 16, 1830.
Glasgow Theatre, Jau., 1829.
Gordon Castle, July 13, 1827.
Greenwich Hospital Chapel, Jan. 2, 1789.

1789

Houses of Parliament, Oct. 16, 1834. Kingstou, Jamaioa, Feb. 8, 1782. Liverpool, Sept. 14, 1802, and Jan. 1,

London, the Great Fire, Sept. 1666. London Bridge, 3000 persons, July 10, 1212. Feb. 11, 1632.

Round Tower), Oct. 30, 1841.

Mosoow, the Burning of, Sept. 14, 1839

1839. New Orleans, 1788. New York, 674 houses, Nov. 15, 1835. Opera House, June 17, 1788. Plymouth Dock Yard, Sept. 27, 1840 Portsmouth Dock Yard, 1760, 1770,

1776.

Ryal Exchauge, Jan. 10, 1838.

Sheerness, 50 bouses, Jan. 4, 1830.

Southwark, 600 houses, 1676.

Woolwich Arsenal, March 22, 1802.

Wynyatt House, Feb. 19, 1841.

Westminster Abbey, the Great Tower,
July, 1808.

York Mioster, by Martin, Feb. 2, 1820.

anoidentally, May 20.

-, accidentally, May 20, 1840.

4. Occurrences.

Acts of Parliament first printed, 1509. Antiquarian Society Charter, Oct. 26, 1751.

Almanacs, duty repealed, July 27,

1834, Arkwright's first patent, 1769. Arrest under mesne process abol., Aug., 1538. Babiugton's conspiracy, 1586. Balloon, first ascent in, Nov. 23, 1782. Bank of England founded, April 25,

Bank notes of £1 issued, March 9, 1797. Barnets first created, 1608.
Bath, Order augmented, Jan. 22, 1815.
Bazaar first opened in London, 1815.
Bible Society, British and Foreign, 1801.

Bill of Rights passed, 1689.
Birmingham, riots at, July 14, 1791.
Bishops (7) sent to the Tower, June 8, 1688.

8, 1688.
Blood, circulation of the, discovered by Harvey, 1628.
Bread, assize of, first statute, 1202.
——abolished, 1815.
Bristol, riots and incendiarism at, Oct. 29–31, 1831.
British Museum instituted, April 5, 1252

British Museum instituted, April 9, 1753,
Cade's Insurrection, June 17, 1450.
Calcutta, confinement in the Blackhole at, 1756.
Canals in England, first act for, 1755.
Cannon first used, 1346.
Cash-payments at Bank suspended, March 17, 1797.
Catholio Relief Bill passed, April 12, 1820.

1829.

Cato-street conspiracy, Feb. 23, 1820. Chelsea Hospital founded, Maron 12, 1682.

1082. Christ's Hospital founded, 1552. Cholera, public measures against, January 17, 1830. Clergy, benefit of, abolished, 1827. Clergy Convocation, privil. reduced, 1716.

Clocks and dials set up in churches, 618.

Coaches first used in England, 1555. Cold Bath Fields riot, May 12, 1833. Common Prayer Book enaoted, Jan.

7, 1549. Congreve Rockets invented, 1803 Conventiou Parliaments, 1660, 1668. Convicts at Bot Bay, first arrival, 1788. Corporation and Test Acts repealed, May 9, 1828.

Corporation Act, Dec. 20, 1661. Coveoanters, March 1, 1638. Cromwell made Protector, Dec. 12, 1658.

Crosses, monumental, first erected, 1290:

1290. Curfew; introduced, 1068; abolished, 1160. Daspard's conspiracy, Jan. 16, 1803. Domesday Book, compiled. 1081. Engravings on copper. 1460. ——wood, by Durer, 1521. Excise duties, the first, 1643. Exceter Change, damolished, Dec. 24, 1829.

Franking of Lettera abolished, Jan. 10, 1840.

10, 1840. Frosts, grêa?; iu England, 1740, 1760, 1789, 1814. Garter, Orderjostituted, 1349. Gas Light instituted, June 5, 1807. Gazette first printed, Nov. 7, 1665. Glass first made in England, 664. Gold first coined in England, 1257.
Greenwich Hospital instituted, 1694.

Observatory used as a me-

ridian, 1679. Guildhall of London built, 1410.

1693.

Halfpence and farthings first coined,

Aug., 1672. Hardy, Thomas, acquitted, Nov. 5, 1794.

Hastings' (Warren) trial, Feb. 15, 1783, to April 25, 1795 Hops first cultivated in England, 1524. Hungerford Market opened, July 2,

Ket's rebellion, July 6, 1549. King's College incorporated, Aug. 14, 1829.

Latin abolished in law proceedings, 1730.

Loans, Parliamentary, origin of, 1382. Locusts, swarm in London, Aug. 4, 1748.

London, first lighted with lamps, 1681.

Bridge opened, Aug 1, 1831.

Docks, Jan. 30, 1805.

Tower of, built, 1080.

- University College, opened,

Long Parliament, dissolved, Jan. 24, 1679. Loyalty Loan, of £18,000,000, Dec. 5, 1796.

Magna Charta granted, June 19, 1215. Mail coaches first set up, 1784. Manchester Railway opeu, Sept. 15,

—— riot at, Aug. 17, 1819.

Mariner's compass discovered, 1302.

Marriage and Registration Acts. 1836.

Massacre of Glenco, Feb. 13, 1691.

of Protestants in Ireland,
Oct. 23, 1641.

Meal Tub Plot, 1680.

Monasteries, dissolution of, March,
1536.

Monmouth's rebellion, June, 1685. Mortmain, Statute of, 1279. Municipal Corporations Act, Aug. 28,

Musical notes invented, 1070. Musing in the fleet, April to June, 1797.

Nelson'a, Lord, funeral, Jan. 9, 1806.

New River finished, 1641.

Style, adopted in England, Sept. 2, 1752.

O. P. riot at Covent Garden Theatre, 1809.

1834. Parliamentary Reform Act. June 7, 1832. Parochial Registera first appointed,

Occurrences (continued.) Parliament, firstEnglish, Jan.29,1269 Peel's bill for resumption of cash pay-Peel's bill for resumption of cash payments, 1819. Pictures first exhibited at Somerset House, 1769. Pins first used by ladies, 1543. Plague in London, 1603 and 1665. Police, Metrop, established, Sept. 1829 Population Census, May 30, 1831. Postage, General, at a Penny, Nov. 10, 1840. Post Office, New, opened, Sept. 23, 1829. Prince of Wales the first. 1284. Prince of Wales, the first, 1284. Printing, the art discovered, 1436. Quaker, first sent to Parlisment, Feb. 15, 1833. 15, 1833. Quakers, affirmation by, substituted for oath, 1696. Queen Caroline's Trial abandoned, Nov. 10, 1820. Railway Act, the first, May 22, 1801. Regency of George Prince of Wales, Jan. 8, 1810. Ritts in London (no, ponewy), June Riots in London (no popery), June 2, 1782. Royal Exchange built, 1564. burnt, Jan. 10, 1838 Royal George, foundered at Spithead, Royal George, foundered at Spithead, June 28, 1782. — Society instituted, Dec. 30, 1660. — Humane Society instituted, 1774. Rye House Plat, 1683. Safety Lamp, by Davy, 1815. Sanctuaries for Debt abolished, 1697. Saving Banks enacted, 1816. Septeunial Parliaments enacted, 1715 Septeunial Parliaments enacted, 1715 Small Pox, inocalation for, 1721. South Sea Bubble, 1720. Spa Fields riots, Dec. 2, 1816. St. James's Park made public, 1668. St. Paul's rebuilt by Wren, 1710. Stamp duties first inst., June 23, 1604. Star Chambar Court abolished, 1641.

Star Chamber Court abolished, 1641.

Steam spplied to printing the "Times Nov. 29, 1814.

Tea first used in England, 1666.

Telescopes invented, 1590.

Tobacco brought to England, 1585, ransports first sent to Botany Bay Jan. 14, 1788. Jan. 14, 1788.
Turnpike gates first erected, 1663.
Union with Ireland, Jan. 1, 1801.
Vaccine Nat. Institution, Jan. 18, 1809.
Watches brought to England, 1597.
Waterloo Bridgeopened, June 18, 1817.
Wat Tyler's insurrection, June, 1381.
Westminster Bridge opened, 1750. 5. Occurrences (Political), Treatises, and Geographical Discoveries. Aix-la-Chapelle Treaty, April 30, 1748. America discovered, Oct. 23, 1492.

Stamp Act repealed, March 18, 1766.

First Congress, Oct. 5, 1775.
Union and Independence declared, July 14, 1776. -Treaty with England, Jan.

4, 1784.
deolaration of war against England, June 18, 1812.
Austria, first title of Emperor of, Aug. 11, 1804. Azores discovered by the Portuguese, 1448.

Barrow's Straits discovered, 1819. Bastille in Paris destroyed, July 14, Belgium, independence of, Oct. 1, 1830

Leopold, King of, June 26,

1831.
Berlin Decree, Nov. 21, 1806.
Bermudas discovered, 1527.
Bernadotte, Crown Prince of Sweden,
Aug. 21, 1810.
Buonaparte, First Consul, Dec. 13, 1799

- Emperor of the French, May 18, 1801 - his Milan Decree, Dec. 17,

marries Maria Louisa, April 2, 1810. sent to Elba, 1814.

returns from Elba, March 1, 1815. - 2nd abdication, June 22, Buonaparte dies at St. Helena, May 5, 1821. Bourbon Family restored, July 8,

1815.
Brazil discovered, April 21, 1500.
Brussels, revolution at, Aug. 25, 1830.
Campo Formio, treaty of, Oct. 17, 1797.

Canada reduction of, 1760.
Canary Isles discovered, 1364.
Cape of Good Hope discovered, 1486
Cardinals first elected, 308.
Charles X. of France dethroned, July

30,1830. Christophe crowned at Haiti, June 2, 1811

Confederation of the Rhine, July 12, 1806. Convention of Reichenhach, July 27,

1790.

— Pilnitz, Aug. 27, 1790.

— Ciutra, Aug. 30, 1808.

Toplitz, Oct. 8, 1813.

Council of Trent, 1549.

Crusade, the first, 1094.

Cuba discovered by Columbus, 1492.

Dominica discovered, Nov. 3, 1493.

Edict of Nantes, 1598.

revoked, Oct. 24, 1685. Ferroe Islands discovered, 861.
French, Louis Philippe made King of the, Aug. 10, 1830.

Revolution, July 14,1789.

Germany, empire dissolved, Aug. 6,

Greece, de 13, 1822. declared independent, Jan. Greenland discovered by Icelanders,

950. Hanover made a kingdom, Oct. 12,1814 Holy Alliance formed, Sept. 26, 1815. Ionian Islands, under protection of England, Nov. 5, 1815. Janissaries abolished, Juhe 16, 1826.

Japan discovered, 1542. League of Cambray, Dec. 10, 1508. Louisiana ceded to France, Oct. 1,

sold to United States, Jan. 23, 1833.

Madagasoar discovered by Almeida, Madeira discovered by Masham, 1344

Mamelukes, massaore of, at Cairo, March 1, 1811. Mexico discovered, 1518. Netherlands, made a kingdom, March

and Holland, June 4: 1831.
Newfoundland discovered, June 24, 1494.
New L. P.

New Holland discovered, 1525. New Zealand discovered, 1642.

by England discovered, 1642.

Sovereignty assumed by England, March 21, 1841.

Norway passed to Sweden, Dec.4, 1814

Otaheite discovered, 1765.

Paris, Bastille destroyed, July 14, 1789

Allies enter, March 31, 1814.

Three days contest, July 27,

1830.

1830.
Peace of Ryswick, Sept. 30, 1697.

Utrecht, 1713.

Rastadt, March 11, 1798.

Luneville, Feh. 9, 1801.

Amiens, March 27, 1802.

Tilsit, July 7, 1807.

Vienna, Oct. 14, 1809.

Paris, June 3, 1814.

General Treaty of Nov.

General Treaty of, Nov. 20, 1815.

Pope driven from Rome, Feb. 15, 1798 St. Domingo, independence of, Nov. 30, 1798 St. Helena discovered, 1502.

Saxons came into England, 449 Saxony made a kingdom, Dec.20,1806 Scottish Rehellion, 1745. Sicilian Vespers, March 30, 1282. Sierra Leone, settlement at, Dec. 9,

1786 Slave Trade abolished, June 5, 1806. Ulm, capitulation of, Oct. 19, 1805. Van Diemen's Land discovered, 1616. Venice ceded to Austria, Dec. 9, 1797. Vienna, treaty of, Jan. 23, 1815. Westphalia, Jerome Bonaparte, King

of, Aug., 1807.
Wurtemburg made a kingdom, Jan. 1, 1806.

SUMMARY OF THE POPULATION OF GREAT BRITAIN, AND ISLANDS IN THE BRITISH SEAS. COMPARATIVE POPULATION.

	1801.	1811.	1821.	1831.	1841.	Males.	Females.
England	8,331,434 541,546	9,538,827 61 1, 788	11,261,437 717,438	13,091,005 806,182	14,995,508 911,321	7,321,875 447,533	7,673 633 463,788
England and Wales	8,872,980 1,599,068	10,150,615 1,813,688	11,978,875 2,093,456	13.897,187 2,365,114	15,906,829 2,628,957	7,769,408 1,246,427	8,137 421 1,382 530
GREAT BRITAIN	10,472,048	11,964,903	14,072,331 89,508	16,262,301 103,710	18,535,786 124,079	9,015,835 57,598	9,519,951 66,481
TOTAL			14,161,839	16,366,011	18,659,865	9,073,433	9,586,432

** This Summary includes only such part of the Army, Navy, and Merchant Scamen as were on shore in the kingdom; and excludes Travellers b Cauals and Railroads, which latter are taken at 4896.

17,062,566 Persons on hoard Vessels of War

Total 17,068 366 TABLE,

SHOWING THE NUMBER OF HOUSES INHABITED, UNINHABITED, AND BUILDING, IN ENGLA
FROM 1801 TO 1841; AND THE INCREASE PER CENT. IN INHABITED HOUSES. ENGLAND AND WALES,

Increase per Cent. in the Inhabited Houses. Building Census. Inhabited. Unin. Census. habited. 1,467,870 1,678,106 1,951,973 1801 53,965 47,925 66,055 15,189 18,289 1901 to 1811 1811 to 1821 14.3 16.3 14.5 1821 17.5 16. 14.5 25,704 1831 to 1841 2,755,710 163,077 18.4 HOUSES .-3,511 3,095 3,652 1801 1811 1821 119,398 136,183 1.019 1801 to 1811 10.5 13. 1811 1821 to 14. 14.2 1.297 1831 155.522 6.030 to 1831 12. From the above statement it will be seen, that between 1801 and 1811 the

Houses .- England.

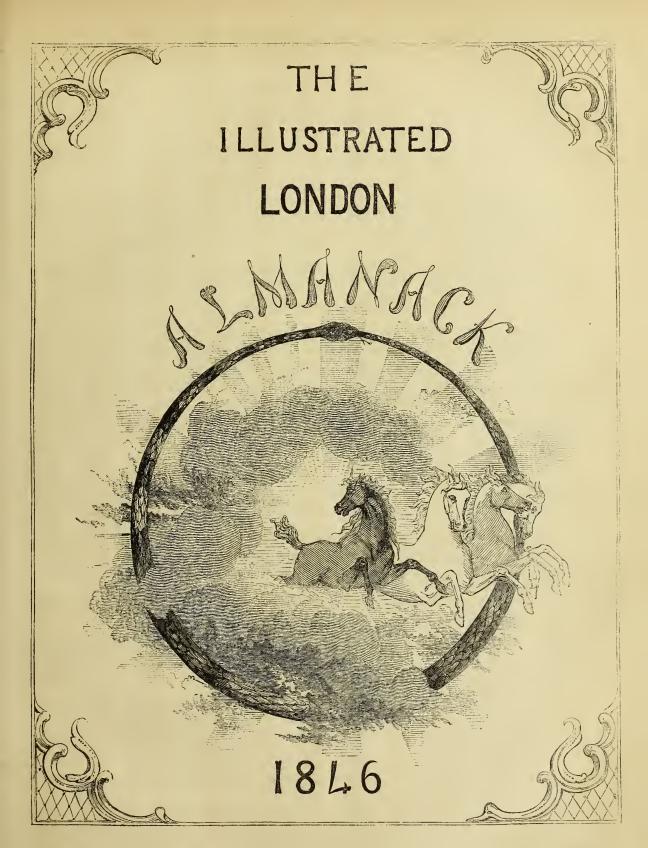
SE PER CENT. IN INHABITED HOUSES. increase per cent. on both houses and population was nearly equal; between 1811 and 1821 the increase per cent. on the population, as compared with the increase per cent. of inhabited houses, was, in England, greater by 1.2 per cent, and in Wales, during the same period, by 3 per cent.; while between 1821 and 1841, the inhabited houses increased in a much higher ratio than the population, both in England and Wales; a fair test of the improvement of the country, for if the number of inhabited houses in a country falls off in proportion to the increase of the population, it mght fairly be inferred that the condition of the country was deteriorated. The number of houses building affords also a good criterion of a country's progress in wealth and industry, and a reference to the statement above given, shows, that as compared with 1811 there were 10,515 more building in 1841 (at the period when the Census was taken) than at the former period. On the other hand, the number of houses uninhabited has more than tripled since 1801, and though this great number, no doubt, partly arises from the depression of trade and commerce within the last few years, still, a great proportion of these were uninhabited in consequence of being so dilapidated, as to be mnft for occupation, and the greater conveniences and comforts of the modern houses inducing the people to desert the old and less-comfortable mansions of their forefathers.

I	64] TABLE, SHOWING	THE NUMBER OF PERS OCCUPATION, FOR EA	ONS OF E	OTH SEX	KES, CLASS NGLAND, W	IFIED UND	ER THE FOLLOW SCOTLAND.	ING HEAD	SOF
l	COUNTIES.	Trade, and Agriculture.	Labourers.	Domestic Servants.	In Miscel- laneous Pursuits.	Of Independent Means.	Almspeople, Pension- lers, Paupers, Lunatics, and Prisoners.	Residue of Population.	Total Population

	OCCUPATIO:	N, FOR EA	CH COUN	TY IN E	NGLAND, W	ALES, AND	SCOTLAND.		
COUNTIES.	Trade, and Manufacture.	Agriculture.	Labourers.	Domestic Servants.	In Miscel- laneous	Of Independent Means.	Almspeople, Pension- ers, Paupers, Lunatics,	Residue of Population.	Total Population.
ENGLAND	· ·				Pursuits.		and Prisoners.		
Bedford	14,333	14,933	2,369	4,693	958	1,720	1,292	67,638	107,936
Berks	16,479	21,249	5,130	11,538	3,482	4,779	2,424	96,066	161,147
Cambridge	19,664	21,897 22,918	3,214 3,578	8,650 9,522	1,597 2,158	3,084 3,826	1,846 1,488	96,031 106,225	155,983 164,459
Bucks Cambridge Chester Cornwall	93,314	26,804	14,544	24,001	7,167	8,444	2,355	219,031	395,660
Cornwall	31,723	26,862	30,325	20,172	6,865	9,077	3,371	212,884	341,279
Cornwall Cumberland Derby. Devon. Dorset Durham	26,053	15,611	6,879	11,872	3,201	6,597	2,138	105,687	178,038
Derby	51,675 69,470	19,333 54,522	15,477	15,235 41,855	3,173 14,319	5,193 20,353	1,585 7,448	160,546 313,725	272,217 533,460
Dorset	19,459	19,192	4,382	9,530	3,335	5,589	2,374	111,182	175,043
Durham	45,179	14,362	27,580	15,111	8,549	8,231	2,043	203,229	324,284
E 3367 *** *** *** * * * * * * * * * * * * *	1 172,120	51,116	9,517	20,256	6,774	7,403	3,777	214,016	344,979
Gloucester	65,016	31,270 16,616	21,603 3,052	31,094	9,469	16,002 3,276	4,847	252,082	431,383
Hereford	11,265 20,181	20,145	5,218	11,193 10,193	1,318 2,133	3,696	1,036 2,02 7	66,122 93,614	113,878 157,207
Hertford Huntingdon Kent	5,365	8,480	1,161	3,524	736	1,157	501	37,625	58,549
Kent	55,688	47,585	20,293	36,392	28,237	18,629	13,047	328,466	548,337
Lancaster	467,784	49,569 17,092	76,079 3,676	72,998	31,698	33,207 4,377	12,717	923,002	1,667,054
Lincoln	41,554 35,140	57,561	6,147	13,547 26,534	2,642 6,022	9,099	2,I34 3,269	130,845 218,830	215,867 362,602
Lincoln Middlesex Monmouth	315,259	18,164	82,240	156,731	62,155	76,369	24,083	841,635	1,576,636
Monmouth	17,641	8,685	16,788	7,556	2,174	2,622	737	78,152	134,355
Norfolk	48,821	50,365 25,731	8,291 3,228	23,118	7,717	10,358	4,840	259,154	412,664
Northumberland	26,859 37,298	17,339	15,615	10,568 13,918	2,941 6,492	6,875	2,389 1,858	123,724 150,883	199,228 250,278
Nottingham	51,373	20,358	5,460	13,283	3,465	4,818	1,923	149,230	249,910
Oxford	17,369	20,789	3,878	9,573	2,199	3,857	1,920	102,058	161,643
Nottingham Oxford Rulland	1,955 28,485	3,316 28,003	430 13,928	1,435 17,481	227 3,224	416 5,316	259 2,057	13,264	21,302 239,048
Salop Somerset Southampton	56,531	44,467	20,474	29,025	6 947	14,907	2,057 5,696	140,554 257,935	435,982
Southampton	37,466	35,541	12,715	22,698	12,926	11,762	7,208	214,688	355,004
	05.591	29,120	31,917	23,331	6,606	8,173	3,669	309,107	510,504
Suffolk	31,572	43,858 25,352	5,212 32,079	17,817 44,202	5,083 18,937	7,499 24,530	3,901	200,131	315,073 582,678
Isussex	94,389 29,134	35,708	10,149	22,208	6,627	8,915	10,217 4,237	332,972 182,775	299,753
Warwick	87,947	24,239	11,804	23,925	7,538	8,076	3,499	233,787	401,715
Staffolk Stirrey Sussex Warwick Westmoreland	7,771	6,566	1,277	4,329	770	2,275	675	32,791	56,454
17 1163	20,000	36,390 23,549	9,252 9,020	13,096 11,031	2,032 3,742	5,096 5,231	4,659 1,935	158,381 139,801	258,733 233,336
Worcester	39,027 25,297	23,506	5,304	13,075	6,007	6,038	1,717	113,992	194,936
- City and Aiusty	6,994	2,179	1,202	3,345	999	1,596	513	21,493	38,321
, City and Aiusty, N. Riding	23,625	28,177	4,556	13,777	3,541	6,389	1,515	122,542	204,122
, W. Riding	284,446	49,297	40,681	42,400	15,218	21,550	7,150	693,329	1,154,101
Persons Travelling		1,157,816	600 400	935,832	1000 000	401.005	700,000	5,016	5,016
Total, England	2,529,073	1,137,010	620,492	550,052	332,330	421,995	168,376	8,834,240	15,000,154
WALES.	4,100	7,720	1,336	2,986	724	1,094	718	32,213	50 891
Anglesey Brecon.	5,780	5,589	5,418	3,706	708	1,305	393	32,695	55,603
Cardigan	5,657	8,996	1,596	5,865	833	2,193	665	42,961	68,766
Carmarthen	9,070	14,511 9,813	3,429 5,799	8,078	1,162	3,602 2,281	1,031	65,443	106,326
Carnaryon Denhigh Flint Glamorgan	6,278 8,334	11,441	4,639	5,122 6,668	1,331 759	1,968	931	50,068 54,126	81,093 88,866
Flint	6,387	5,491	5,701	4,270	1,016	1,252	395	42,407	66,919
Glamorgan	23,939	10,086	19,369	9,143	3,241	4,071	854	100,485	171,188
Menonem	3,176 7,550	5,677 10,229	1,801	3,023 5,010	438 669	1,043 1,177	455 864	23,719 42,454	39,332 69,219
Montgomery	7,883	9,470	2,770	7,415	1,689	3,147	943	54,727	88,044
Radnor	1,970	4 609	306	1,930	188	845	180	15,328	25,356
Total, Wales	90,133	103,632	53,430	63,216	12,758	23,978	7,830	556,626	911,603
Isles in the British Seas	17,589	8,493	3,373	7,535	4,571	7,176	1,173	74,130	124,040
Total, England and Wales, and		1.000.011	677,295	1,006,583		453,149			
Isles in British Seas	2,636,795	1,269,941	077,290	1,000,585	349,659	400,149	177,379	9,464,996	16,035,797
SCOTLAND.									
Aberdeen	27,937	25 324	3,559	14,711	4,575	6,837	1,947	107,597	192,387
Aberdeen Argyll Ayr Banf Berwick Bute Caithyage	6,194	13,187	1,515 6,189	6,071	2,917 2,275	1,401 2,510	1,039 720	65,017	97,371 164,356
Banff	4,236	7,581	615	8,480 3,715	1,596	1,581	573	99,885 29,782	49,679
Berwick	3,608	6,173	439	2,424	676	731	540	20,044	34,438
Caithness	1,848	1,419	156 422	1,089	692	511 648	67	9,958	15,740
Clackmannan	3,166 3,144	5,116 952	1,274	1,935 674	1,320 321	387	323 34	23,413 12,369	36,343 19,155
Dumbarton	11,417	2,603	2,817	2,380	938	852	100	23,189	41,296
Dumfries	9,229 44,479	10,938	1,515	3,712	1,009	1,683	743	44,001	72,830
Edinburgh. Elgin Fite.	41,479	7,756 5,080	9,126 739	20,664	9,718	8,634 1,259	3,538	121,539	225,454
File	3,547 30,691	10,041	4,035	3,147 5,508	789 2,985	2,911	379 650	20,072 83 319	35,012 140,140
ForfarHaddington	41,709	10,078	3,747	8,696	4,050	3,599	928	94,713	170,520
Haddington	3,564	6,168	752	2,120	806	810	176	21,480	35,886
Kinoardine		13,746	1,309	6,990	1,923	2,044 699	1,220	64,720	97,799
Kinross	4,061 1,798	5,848 1,032	307 129	2,814 411	999 91	266	503 25	17,844 5,017	33,075 8,763
Kinross	4,025	5,256	715	3,081	579	1,175	309	25,979	41,119
Lanark	116,121	13,169	26,936	20,710	9,213 371	6,879	3,099	230,845	426,972
LinlithgowNairn	4,038	2,456	2,707 : 136	1,387	371 224	487 219	98	15,328	26,872
Orkney & Shetland	4,627	1,591 6,251	136 352	788 3,823	3,600	1,023	81 748	5,396 40,641	9,217 61,065
Perbles	1,004	1,669	286	984	148	242	89	6 077	10,499
Perth	23,400	16,302	2,624	9,483	2,112	3,147	944	79,378	137,390
Perth Renfrew	44,117 4,411	5,866	4,974 631	6,005	3,178 2,508	2,517 983	883 741	87,532 54 163	155,072 78,685
lioxburgh	7,446	10,281 6,530	818	4,967 2,901	2,508 526	1,102	741 494	54,163 26,208	46,025
Selkirk	1.379	902	150	546	87	149	59	4,725	7,990
Stirling	14,949	6,415	4,952	4,298	1,235	1,820	346	48.042	82,057
Wigton	1,166 3,511	3,380	172 445	1,635	566 633	423 759	386 108	17,054 26,081	24,782 39,195
Total, Scotland		5,167	84,573	2,491	62,660	58,291		1,531,402	2,620,184
Army abroad and in Ireland	170,001	229,337		158,650	89,230		21,690	1,001,402	89,230
Navy and Merchant Seamen afloat*			::	**	96,799	::	957	1,467	99,223
Total, Great Britain		1,499,278		1,165,233	598,348	511,440	200,026	10,997,865	18,844,434
Col. 2, includes Farmers and Graziers, wise apecified, also Miners Quarriers.	Portors Mosson	ranourers, Fa	r nersons en	raced in labo	rious occupation	ns Col 5 incl	ndes Army at home N	nos employmen	nt Roomen on

Col. 2, includes Farmers and Graziers, Agricultural Labourers, Farm-Servants, Gardeners, Nurserymen, and Florists. Col. 3, includes Labourers whose employment is not other-wise apocified, also Miners, Quarriers, Porters, Messengers, and other persons engaged in laborious occupations. Col. 5, includes Army at home, Navy and Mirchant Seamen on shore. Mariners, Fishermen, Watermen, Professional Persons, including Clerical, Legal, and Medical, Persons in the Government Civil Service, Parochial Officers, Police, &c., and other educated persons following Miscellane-us Pursuits.

* Exclusive of 70,000 Seamen about on the Foreign and Coasting Service, making a total of 283,630 men belonging to Great Britain, employed on the Sea and Inland Navigation.



LONDON

PUBLISHED AT THE OFFICE OF THE ILLUSTRATED LONDON NEWS,
198, STRAND.

PREFACE.

THE Second Illustrated London Almanack is now offered to the public; and it is hoped that it will not be found less worthy of a favourable reception, than that which has preceded it.

The First Page of each Month is headed by an Allegorical Design, and the remainder is devoted to Calendarial Information; we proceed to explain, where necessary, the columns in this page.

SUN AND MOON RISING AND SETTING, &c.

In calculating the Times of Sun Rising or Setting, the effect of refraction has been taken into account, by assuming that the mean horizontal refraction is 34'; and for the Moon a mean horizontal parallax of 57' has also been included, so that the times are for the centre of each body appearing in the horizon.

The difference between the time of the Moon Rising or Setting, and the time the Moon Souths, represents the half of the time the Moon is above the horizon.

The Times of the Phases of the Moon are computed for the meridian of Greenwich. The times for any other meridian may be easily deduced by adding or subtracting the difference of longitude from Greenwich, according as the same is E. or W. of Greenwich.

EQUATION OF TIME.

The interval of time between the Sun being on the meridian of one day, and his being on the meridian of the next day, is not always the same, and, therefore, solar days are not equal in duration; about one half are a little more, and about one half are a little less than twenty-four hours. A clock regulated by the Sun would need frequent adjustment; to avoid this, an imaginary Sun is supposed to move, so that the interval of time between its consecutive passages over the meridian is always equal; such a time represents a mean solar day, and it is the average of all the apparent solar days in a year. The difference of time between the imaginary Sun and the true Sun passing the meridian, is called the "Equation of Time," the amount of which at noon every day is inserted. There are only four days in the year when the apparent and mean-time are the same, and the Equation of Time is nothing, viz., April 15th, June 15th, September 1st, and December 24th. Between April 15th, and June 15th, the imaginary Sun follows the true Sun, and, therefore, the clock-time is earlier than the Sun and the "Equation" is additive. Between September 1st, and December 24th, the clock-time is again earlier than the Sun, and the "Equation" is subtractive. After December 24th, and before April 15th, the clock-time is later than the Sun, and the "Equation" is additive.

The greatest difference between mean-time (common clock-time) and apparent time (time by the Sun) occurs on the 3rd of November, and it is 16m. 17sec. the Equation then being subtractive from apparent time; and the instant the Sun's centre is on the incridian, or he is Southing, the time by a clock regulated to mean-time should be 11h. 43m. 43sec. On the 11th day of February, the greatest additive Equation occurs, and when the Sun is Southing, a clock regulated to mean-time should show 14m. 32sec., after noon. All the calculations throughout this Almanack have been adapted to Greenwich mean-time.

Mean-time is easily reduced to apparent, by applying the Equation the reverse to that mentioned in the Almanaek.

The other columns need no remark; as their respective headings fully explain themselves.

The whole of these calculations have been performed under the immediate superintendence of James Glaisher, Esq., F.R.A.S., and of the Royal Observatory, Greenwich.

The Second Page of each Month is devoted to Astronomical Appearances and Occurrences. It forms a Popular Treatise on the Astronomy of the Current Year, with much that is applicable at all times; and, therefore, it has a permanent interest. This department has also been written by Mr. Glaisher, of the Royal Observatory.

The Third Page of each Month is headed by a graceful Illustration of its Sports, Pastimes, and Pursuits; accompanied by Notes upon its Feasts and Fasts, and brief Notices of the Festal Observances by which the several Holidays have been transmitted through ages unto our own time. Throughout the Illustrations, the Artist has associated the Ages of Man with the Natural Appearances of the Year in each Month; the epigraphs to each being quoted from a quaint old poem—"The Age and Life of Man: a Short Description of the Nature, Rise, and Fall, according to the Twelve Months of the Year."

The Fourth Page of each Month is devoted to its Natural History; which needs no explanation, further than that, in writing the article, the best anthorities have been consulted. This department has been written by Mr. Glaisher. The whole of the drawings in this and the Astronomical section, have been made by Mrs. Glaisher. This division of our Almanack will apply as well to any other year as to this; and it, therefore, has a permanent attraction. The application of a more perfect knowledge of the works of Creation is endless; this alone raises the study of Natural History very high in the scale of human inquiry, and we hope that we may have performed a service to many readers by imparting it in a more accessible and persuasive form.

The remaining portion of the Almanack is devoted to Useful Tables, for reference, &c., which have been derived from the best sources.

The Illustrated Almanack, as now offered to the public, is nnique. It is earnestly hoped, that as this Almanack may be viewed in a multiple point of view, it will be found valuable. We may mention a few instances: in the first place, as a book of reference, in many respects not only for the immediate year for which it is formed, but, also, of perpetual interest; in the second place, it may be viewed as a book of instruction; and, thirdly, it may be viewed as a book of pleasant reading. Extreme labour and care have been expended npon its execution; so as to combine the precision and accuracy of an Almanack with its picturesque beauty.

The Index of the Contents will be found upon the last page.

THE PRINCIPAL ARTICLES OF THE CALENDAR.

FOR THE YEAR OF OUR LORD 1846.

Golden Num		• •		4	Dominical Letter	 ••	••	D
Epact	••				Roman Indiction	••		4
Solar Cycle	 ••		• • •	7	Julian Period	 	••	6559

'Notes.—As many persons are not aware of the significations of these terms, the following explanation has been appended:—

- 1. GOLDEN NUMBER.—This is in fact the remainder left after dividing 1844 and 1 added, by 19 years, that being the revolution or cycle in which the conjunctious, oppositions, and other aspects of the Moon happen on the same days of their respective months, as they were set down nineteen years hefore, and also within half an hour of the same time of day.
- 2. The Solar Cycle is the twenty-eight years that revolve hefore the same days of the week return to the same days of the month, the sun's place to the same signs, and degrees of the Ecliptic at the same dates and the leap years begin the same course over again with respect to the days of the week on which the days of the month fall.
- THE DOMINICAL LETTER, which denntes Sunday or day of our Lord, (i.e. I 3. THE DOMINICAL LETTER, which dennies Suinday or day of our Lord, (i.e. Domini,) was the ancient mode of notation, but is now only used to denote the Sabbaths. Thus the ordinary year being 365 days, or one more than 52 weeks, the Sunday letter falls hack one letter each year; unless it is Leap Year, when a second move backwards takes place. As every fourth year is thus Bissextille, and as the number of letters employed is seven, the same order of Dominical Letters will return only in four times even or twenty eight years, whereas, without that interesting its nucleus times. intervention, it would return in seven.
- 4. THE ROMAN INDICTION is a cycle of fifteen years, indicating the terms of certain payments due by the Roman Landholders to their Government.
- 5. THE JULIAN PERIOD is a revolution of 7980 years, and is produced by the continued multiplication of the three cycles above, viz. 19, 28, and 15. FIXED AND MOVEABLE FESTIVALS, ANNIVERSARIES, &c.

Epiphany ... Jan. Martyrdom of King Charles I. Septuagesima Sunday ... Feb. Birth of Queen Victoria 30 Birth of Queen Victoria ... Restoration of King Chas. II. Pentecost—Whit Sunday ... May 24 31 Trinity Sunday Corpus Christi Accession of Queen Victoria Quinguagesima—Shrove Sunday Ash Wednesday June Ash Wednesday Quadragesima—1st Sunday in Lent March 1 Proclamation 21

St. John Baptist—Midsum-mer Day 24 Birth of Dowager Queen Adelaide 35t.Michael—Michaelmas Day Sept. 29 Gunpowder Plot What Nov. 5 St. David St. Patrick Annunciation—Lady Day ... Palm Sunday Good Friday April .. Good Friday .. Easter Sunday 10 12 Birth of the Prince of Wales
Advent Sunday
St. Andrew .. Low Sunday ... 19 St. George ... Rogation Sunday .. May 17 29 •• •• 17 St. Andrew ... St. Thomas ... Christmas Day 30 Ascension Day—Holy Thurs-day Dec. 21

The year 5607 of the Jewish Era, commences on September 21st, 1846 Ramadan (Month of Ahstinence observed by the Turks) commences on August 23rd. 1846.

The year 1263 of the Mohammedan Era, commences on December 20th, 1846.

LAW TERMS, 1846,

As settled by Statutes 1, William IV., Cap. 70, S. 6 (passed, July 23rd, 1830); Cap. 3, S. 2 (passed, December 23rd, 1820.)

Hilary Term			Begins	Januar	y 11	Ends	Janna	ry 31
Easter Term	••	• •		April	15		May	8
Trinity Term	••	••		May	22		June	12
Michaelmas			,,]	Nov.	2	••	Nov.	25

UNIVERSITY TERMS, 1846. OXFORD.

TI	ERMS			BEGINS	3	ENDS	
Lent Easter Trinity Michaelmas	::	::	::	January April June Octoher The Act,	14 22 3 10 July 7	April May July December	4 30 11 17

CAMBRIDGE.

TERMS		BEGINS	DIVIDES	ENDS
Lent Easter Trinity Michaelmas	::.	Jan. 13 April 22 Oct. 10	Feh. 22. Noon May 31, Midnight Nov. 12, Midnight	April 3 July 10 Dec. 16

ASTRONOMICAL SYMBOLS AND ABREVIATIONS EXPLAINED.

O The Sun (The Moon (The Moon (The Moon (The Moon) Or 5 The Earth d Mars & Vesta # Juno ? Pallas ? Ceres 11 Jupiter H Saturn H The Georgian d Conjunction	Quadrature 3 Opposition 2 Ascending Node 3 Descending Node North E East S South W West Degrees Minutes of Arc H Hours M Minutes of Time	S Seconds of Time T Aries T Aries T Taurus H Gemini C Cancer Q Leo W Virgo Libra M Scorpio f Sagittarius F Capricornus M Aquarius K Pisces

NEW CORN LAW DUTIES

IF IMPORTED FROM ANY FOREIGN COUNTRY.

WHEAT.

Whenever the average price of Corn, made up and published in the manner required by law, the duty shell be for every Quester

		quire	uny.	iaw, the	duty s	nan	be for every	/ Quai	ter.		
Un	der 51s.			••	20 s	625.	and unde	r 63s.	• •		10s.
51s	. and unde	er 52s.			19	63	,,	64	••		9
52	"	55		• •	18	64	**	65			8
55	22	56		••	17	65	"	66			7
56	"	57			16	66	"	69	••		6
57	"	58			15	69	"	70	••		5
58	"	59			14	70	,,	71			4
59	"	60			13	71	21	72			3
60	,,	61		••	12	72	11	73			2
61	"	62		••	11	73 a	nd upward	8			1
	.,				BAR		•				
Unc	ler 26s.			••	11s.	33¢	and under	24e.			5s.
	and unde	r 27s.			10	34	***	35			4
27	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	30			9	35	"	36			3
30		31			8	36		37	••		2
31	"	32	••		7		nd upward				ĩ
32	-	33			6	0. 4	na upnana			•	•
02	"	00	•		OA	TS.					
IInd	ler 19s.				85.		and unde	r 95			48.
	and unde				7	25		26			3
20		23		•••	6	26	"	27			2
23	33	24			5		nd upwards				ĩ
40	"	44	••				BEANS.	,	••	••	1
Har	ler 30s.				ls. 6d.		and under	280			5s. 6d.
	and under			10		38		39			4 6
33		34	••	•• 9		39	"	40			3 6
34	>>	35	••	8		40	99	41	••		2 6
35	>>	36				41	22	42	••		1 6
36	17	37	••				ad ununanda		••	••	1 0
90	19	31	••	•• 6	, 0	42 81	id upwards	,	• •	••	1 0

WHEAT MEAL AND FLOUR.—For every harrel, being 196 pounds, a duty equal in amount to the duty payable on 38½ gallons of Wheat.

OATMEAL—For every quantity of 181½ pounds, a duty equal in amount to the

duty payable on a quarter of Oats.

Malze or Indian Corn, Buck Whish, Bear or Bioc—For every quarter, a duty equal in amount to the duty payable on a quarter of Barley.

If the produce and imported from any British Possession (except Canada) in

North America, or elsewhere out of Europe.

				WH	EAT.						
Under 55s. 55s. and under			5s.	0d.	56s.	and under	57s.		••	35.	0d.
55s. and under	56s.		4	0	57	,,,	5 8	••		2	0
	58s. an	d upward	ls	••	••	••	••	••			
				BAI	RLEY.						

. . . 2s. 6d. 29s. and under 30s. . . . 2 0 30 , 31 .. 28s, and under 29s. OATS. 31s. and npwards 0s. 6d. Under 22s. 2s. 0d. | 22s. and under 23s. .. 1s. 6d.

23s. and upwards 0s. 6d. RYE, PEAS, AND BEANS. .. 3s. 0d. 32s. and under 33s. .. 2s. 6d. 33 ,, 34 .. 2 0 34 and upwards Under 30s. 1s. 6d. Under 30s. ... 30s. and under 31s. ... 32 ... 0 6

WHEAT MEAL AND FLOUR.—For every barrel being 196 pounds, a duty equal in amount to the duty payable on 38½ gallons of Wheat.

OATMEAL.—For every quantity of 181½ pound, a duty equal in amount to the duty payable on a quarter of Oats.

MAIZE OE INDIAN CORN, BUCK WHEAT, BEAR OR BIGG.—For every quarter, a duty equal in amount to the duty payable on a quarter of Barley. CANADA CORN.

By the act passed in the Session of 1843, Corn from Canada is admitted into England on payment of 1s. a quarter dnty; a duty of 3s. a quarter being imposed on Corn admitted into Canada.—Total Fixed duty 4s. a quarter.

STATEMENT
Of the Septennial Prices of each kind of Grain, as prepared for the Purposes of the Tithe Commission in each Year, from 1836 to 1843.

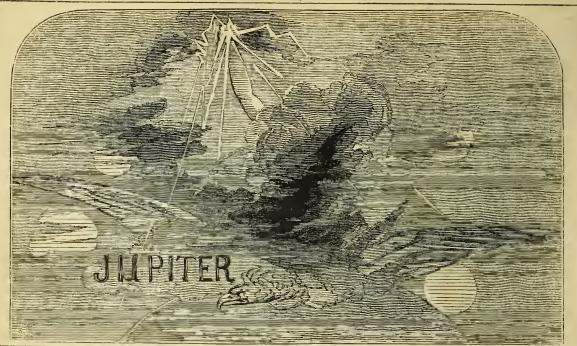
Periods of Sing C	even Ye hristma		Average	e Prices per	r Imperial	Bushel.	
1836 1837 1838 1839 1840 1841 1842 1843		 Wheat, s. d. 6 8 2 3 4 6 6 6 4 6 9 6 11 7 7 2 7 7 2 7 7 3 7 7 3 4	Barley. s. d. 3 11½ 3 11½ 3 9½ 3 11½ 4 1 4 2 4 1½ 4 0½	Oats. s. d . 2 9 2 $8\frac{3}{4}$ 2 8 2 $9\frac{1}{4}$ 2 $10\frac{3}{2}$ 2 $10\frac{1}{2}$ 2 $9\frac{1}{8}$	Rye. 5. d. 4 3 \frac{1}{4} 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Beans. s. d. 4 63 4 10 4 64 4 10 4 11 4 11	Peas. s. d. 4 9½ 4 8¼ 4 8 4 9 4 10¼ 4 10⅓

QUARTER SESSIONS IN THE SEVERAL COUNTIES OF ENGLAND AND WALES.

By the Act I Will. IV., c. 70, it is enacted, that "in the year 1831, and afterwards, the Justices of the Peace in every county, riding, or division, for which Quarter Sessions of the Peace by law ought to be held, should hold their general Quarter Sessions of the Peace in the first whole week after the 11th of October, in the first week after the 28th December, in the first week after the 31st of March, and in the first week after the 24th of June."

March, and in the first week after the 24th of June."

It having been found that some inconvenience occasionally arose from the time fixed for holding of the Spring Quarter Sessions interfering with that appointed for holding the Spring Assizes, an Act was passed 4 and 5 Wm. IV. c. xlvii, allowing a discretionary power of th. Justices of Peace as to the time of holding the Spring Quarter Sessions, and c'ey are empowered at the preceding Epiphany Sessions to appoint two of then 'wdy to alter the day for the Quarter Sessions, if they shall see occasion, so as not to be earlier than the 7th of March, nor later than the 27nd of April; notice of the day so appointed is to be advertised in such papers as the Justices shall direct.

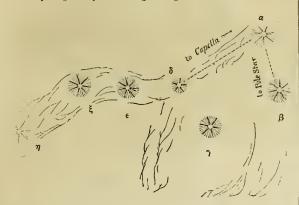


-														
N	W	ANNIVERSARIES, OCCURRENCES, AND FESTIVALS.	Ris	Sun.	dina-	Rises—F	MOON.	ith. Ag	1	don B	er at . Fridge.	Lon-	Equation of Time.	Day of
-			Se	ts-S. tion	South	Sets-S.	_	<u>—1–</u>	Mor	uing.	After		Add.	the Year
1	TTTT	Circumcision—The Festival of the Circum-	H.	м. ∘	_ ′,	н. м.	H.	м. р.	н.	м.	н.	ж.	M. 8.	,
1	TH	Circumcision—The Festival of the Circumcision was established about the close of the 5th century, and adopted	8	8 R 23	1	9 15		noon		15	4	41	3 50	
2	1	in the Church of England, 1550	4	1 22	56	10 31	s 4	20 5		2	5	29	4 19	2
3	S	Lavater died, 1801	8	$8^{ \rm R} 22$	50	11 46	S 5	10 6	5	53	6	17	4 47	3
4	S	2ND SUNDAY AFTER CHRISTMAS	4	$3^{\rm s} 22$	44	Morning	5	59 D	6	4	7	3	5 14	4
5	M	Duke of York died, 1827	8	$8^{R} 22$	38	1 0	s 6	47 8	3 7	28	7	56	5 41	5
6		THE EPIPHANY, instituted in 813, to com-	4	$6^{\rm s} 22$	31	2 8	s 7	36 9	8 110	28	9	3	6 8	6
7	W	memorate the manifestation of the infant Saviour to the wise men of the East.—Old Christmas Day.—Dividend paid	8	7 R 22	23	3 16	s 8	24 10	9	37	10	13	6 34	7
8	Тн	St. Lucian	4	8 s 22	16	4 17	s 9	13 11	110	52	11	31	7 0	8
9	F	Cape of Good Hope taken, 1800	8	6 R 22	7	5 15	s 10	2 12	2		0	4	7 25	9
110	S	Royal Exchange burnt, 1838	4	10 s 21	58	6 5	s 10	51 13		32	Ö	58	7 42	10
11	S	1st Sun. Aft. Epiph.—Hilary Term begins	8	5 R 21	49	6 47	s 11	39 14		21	iĭ	44	8 13	11
12	M	Plough Monday always follows the Epiphany.	4	14 s 21	39	7 24	S		2	3	2	23	8 36	12
13	Tu	Its origin is involved in obscurity; but it is believed to be associated with	8	3 R 21	30	'	1.0	ning. 3	$\frac{1}{2}$	40	$\frac{1}{2}$	59	8 59	13
14	XXY	Venus sets at 8h. 11m. P.M.	· <u>A</u>	17 s 21	19	Afternoo		101	$\frac{1}{3}$	15	3	31	9 21	14
15	-	Queen Elizabeth crowned, 1559	10	1 R 21	8	7 53	-1	53 18	100	46	1	2	$9 \ 42$	15
16		Battle of Corunna, 1809	1	20 s 20	57	8 57		36 19	111	18	4	34	10 3	16
17	s	St. Anthony	7	59 R 20	46	10 3		19 20		50	5	5	10 33	17
18	S	2ND SUNDAY AFTER EPIPHANY	14	$\frac{39}{23} \times \frac{20}{20}$	34	11 9		2 21	111	23	5	38	10 43	18
19	M	Copernicus born, 1473	7	57 R 20		11 9	1				1 6		11 40	19
20	Tu		1			Morning		00		56 34	c	15	11 10	20
21	XXZ	Fabian—St. Fabian was the nineteenth bishop of Rome, he was chosen to that office in the year 241, and after being	4	20 20	8	0 16	R 5	4	6		0	58	11 19	1
00	T	hishop thirtcen years, suffered martyrdom in the Decian persecution	1	55 ^R 19	55	1 28	- 1	22 24		19	/	40	11 36	$\begin{vmatrix} 21 \\ 20 \end{vmatrix}$
22	Тн	Lord Byron born, 1788	4	$30^{\rm s} 19$	42	2 39	_1 -	15 25		16	8	55	11 53	22
23	T	Pitt died, 1806—Duke of Kent died, 1820	7	53 R 19	28	3 47	R 8	11 26		33	10	12	12 9	23
24	S	Fox born, 1794	4	$33 {}^{\rm s} 19$	13	4 53	n 9	11 27	0.1	53	11	34	12 24	24
25	S	3rd Sunday after Epiphany	7	$51^{R} 18$	59	5 52	R 10	13 28	3		0	9	12 38	25
26		Mercury rises 6h. 39m. A.M.	4	$36 {}^{\rm s} 18$	44	6 39	R 11	14 29	0	40	1	9	12 51	26
27	Tv	Hutton died, 1823	7	49 R 18	29	Afternoor	. After	rnoon C	1	37	2	1	13 4	27
28	W	London first lighted with gas, 1807	4	40 s 18	13	6 42	s l	12	2	28	2	51	13 15	28
29		Geo. III. died, 1820-Swedenbourgh b., 1689	7	46 R 17	57	8 6	s 2	8 2	3	16	3	39	13 16	29
30		Charles I. beheaded, 1648	4	44 s 17	41	9 25	s 3	0 3	3 4	1	4	23	13 36	30
31	S	Hilary Term ends—Pheasant Shooting ends	7	43 ^R 17	24	10 42	s 3	52 4	4	44	5	7	13 46	31
-		RIGHT ASCENSIO	NS	AND D	ECLI	NATIONS	OF	THE	PLAN.	ETS.				
Ti	nes of	changes of the Moon, and Days MERCURY. VENUS.		MARS.		JU	TER.	1	SA	TURN.		1	URANU	1.

Almes of changes of the Moon, and when she is at her greatest distance (Apogee,) or at her least distance (Perigee,) from the Earth, in each Lunation. Declina-tion South. Declina-tion North, Declina-tion North. Declina-tion South. Declina-tion South. Declina-Right Ascension. Right Ascension. tion North. 7.8h. 17 17 18 18 18 First Quarter 4d. 2h. 25 m. P.M.
Full Moon 12 2 2 2 "
Third Quarter 20 3 52 "
New Moon 27 9 23 A.M.
Apogee 18 7 "
Perigee 27 3 " 0m 49 53 9 31 57 0h. 0 0 0 0 16' 22h. 21 22 0 22 47 22 25 22 24 23 0h. 0 0 0 24m. 35 47 58 10 57m 57 58 59 1 10° 10 10 10 11 11 40' 21h. 44 21 51 21 59 21 9 21 20 21 25m 25 26 26 26 26 27 20° 20 21 21 22 22 16° 16 16 16 16 2° 3 5 6 7 9 13° 10 8 6 4 59 51 45 43 48 33' 54 14 33 51 8 51' 41 31 20 10 59 56 68 1 4 7 6 11 16 21 26 17 31 45 56 5 21 23 25 27 30

ASTRONOMY is the Science of the Heavenly Bodies, and describes their motions, periods of revolutions, eclipses, magnitudes, &c. And we give, in the present year, a Description of those bodies, with their Appearances in each month, with clear directions to find the stars at different times of the year.

If a spectator observe the heavens on a clear night, they will appear to undergo a continual change. If his back be to the north, some stars will be seen ascending from a quarter on his left hand; others descending to a quarter on his right hand; and, at some intermediate point, each star will reach its greatest height. If he now turn his back to the south, and observe the northern portion of the sky, the same phenomena will present themselves: some stars will appear as before, ascending from a quarter now on his right hand, reaching their highest points and descending to a point on his lefthand. Other stars will be seen moving with different velocities, and some, to all appearance, are motionless; about onc of these stationary stars, all those near it appear to describe circles; that stationary star is the Pole Star. To be able to find this star is of great importance, as, from it, many guiding lines can be drawn to other stars, and it indicates the North, always; it can be found as follows:—the Great Bear is the most conspicuons of the Northern constellations, the tail, and part of the body of which, consist of seven bright stars; four of these have been compared to a plough or wain, and it is generally known by the appellation of "Charles's Wain," and which will be immediately recognised by the following drawing.



The two stars marked α and β , are called the pointers; a supposed line, drawn from β through α , and continued onwards, passes near the Pole Star, at a distance from α equal to six times the distance between the pointers; the Pole Star is brighter than any other star near it: and it is of the third magnitude. Having once found the Pole Star, it will be easily found again, since, to the naked eye, it appears always in the same place. A line from α through the Pole Star directs the eye to the constellation Cepheus, and a line from ϵ through the Pole Star points out the situation of the constellation Cassiopeia, each of these constellations being near to that part of the Milky Way whore it is nearest to the Pole Star; we may remark here, then, an imaginary line, drawn from δ through α and continued more than twice the distance that α is from the Pole Star, nearly passes the bright Star Capolla, in the constellation Auriga, and following at the distance that γ is from β in the Great Bear, is β Auriga. The beginner should commence with the stars in those constellations, and he may then refer the situations of others to their positions with respect to these.

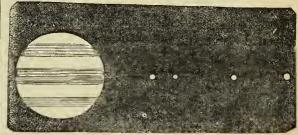
That part of the heavens which is the boundary of the spectator's view, is called the Horizon: stars are said to rise when they first appear above it, and to set when they sink beneath it. That part of the horizon under the Pole Star, is called

the North the opposite part is called the South and when the spectator is looking S. bis left hand is towards the E., and his right hand towards the W. A line passing that part of the sky immediately over head (called the zenith), and joining the N. and S. points of the horizon, is called the Meridian, and it is in this imaginary line that stars always attain their highest points. All those stars whose angular distance from the Pole Star is less than the angular distance that the Pole Star is above the N. borizon, never rise nor set-all other stars do both rise and set. Almost all the stars in the heavens retain towards each other the same relative position-that is, they never approach nor recede from each other; for this reason they are called Fixed Stars; these stars are divided into constellations; the different stars of a constellation arc marked by a Greek letter; they are also designated according to their apparent magnitudes; those of the first magnitude being marked α those of the second, β ; those of the third, γ and so on of each constellation, and in all the drawings throughout this year, those of the 1st magnitude are drawn with eight spikes; those of the 2nd with seven; those of the 3rd with six; and those of the 4th with 5; as in the following



ASTRONOMICAL APPEARANCES IN JANUARY.

There are, however, other bodies, such as the Moon and Planets, which continually change their places, and of these the Moon is the most interesting; but during the months of January, and part of February, Jupiter will be more favorably situated than at any other time in the year, except a part of December, and with the exception of the Moon, there is no more interesting spectacle in the heavens than Jupiter. With a telescope of moderate power his four satellites can be distinctly seen; these are designated the 1st., 2nd., 3rd., and 4th., according to their respective distances from Jupiter, when at their greatest E. or W. position from the planet. They all move round him, passing from W. behind the planet to the E., and from the E. before the planet, to the W., in the former case causing eclipses, and in the latter, transits. Their relative positions, therefore, with regard to Jupiter, and to each other, are continually changing. Sometimes they all appear on one side of the planet, as will be the case on January 1st., at 7 P.M., and which is represented in the following drawing.



And on the 4th day they will all be on the opposite side: but most frequently some are on one side and some on the other.

Jupiter will be found during this month by considering a line drawn from the Pole Star, passing near to γ Andromedæ and to eleven degrees south of α Arietis; the Planet shines brighter than any other object near him. (See the month of March for finding γ Andromedæ and α Arietis.)

		A	STRONOMICAL	OCCURRENCES	IN JANUARY.			
	PLANET	3.		JUPITER'S	SATELLITES.	OCCULTATIONS	OF STARS BY T	HE MOON.
	Time of passing		Angular	Ecli	pses of		Times of	
Names	the Mcridian or of Southing,	When near the Moon	distance from the Moon,	1st. Sat.	2nd. Sat.	Names of the Stars.	disappearance and	At the dark or bright limb
	on the 15th. day		North or South	Emersion	Immersion and Emersion		of the Star.	of Moon.
Mercury	н. м. 10 26 а. м.	D. н. 25 7 р. м.	DEG. 4 South	D. H. M. 6 0 56 A. M.	D. H. M. 6 6 17 8 43 20 P. M.	2 Tanri . }	D. H. M. 8 5 0 P. M. 8 6 4 ,,	Dark Bright
Mars	3 3 р. м. 5 17 р. м.			7 7 25 P. M. 14 9 21 P. M.	13 8 53 13 11 19 20 11 29 31 5 49 }r. M.	62-Piseium . }	31 7 22 F. M. 31 8 25 n	Đark Bright
Jupiter	6 20 P. M.	5 11 г. м.	2½ South	21 11 7 P. M.	3rd. Sat.			
Saturn Uranus	4 47 P. M.			23 5 46 г. м.	3 0 57 A. M. } Immersion } 31 7 10 p. M. } Emersion }	δ Piscium · }	31 7 54 P. M. 31 8 39 ,,	Dark Bright

January 1st. Jupiter's four Satellites are W., and they are E. of the planet on the 4th., 11th., and the 25th., at about 7 o'clock in the evening.

January 1st., at 10h. 44m., P.M. the Earth is the nearest to the Sun during the year, being 93 millions 490 thousand and 620 miles from him —See Jaly.

January 26th., Venus at her greatest brilliancy in the morning.—See the month of May.



BIRTH OF THE TEAR. -CHILD FOUND IN THE SNOW, BESIDE ITS DEAD MOTHER. - EPISODE IN THE ORBAT CONTENT: THE SNOW STATUE.

THERE are few persons of a reflective turn of mind, who do not feel a sort of mirth-melancholy at the close of one year, and the commencement of another. This feeling, probably, led Coleridge to observe, "If I were a moralist, I might disapprove the ringing in the new, and ringing out the old year:—

Why dance ye, mortals, o'er the grave of time !"

A living divine remarks, "It is a merciful provision that the stream of time does not run on in one continuous flow, but that it is broken up and separated into larger portions, which are for 'signs and for seasons, and for days and years.' These changes and vicissitudes present us, successively, with renewed occasions and encouragements to amend our lives, and to set out, as it were, on a new course."

The Christian Year commences with the first Sunday in Advent, a season to prepare for the celebration of our Lord's first, and to ponder on his second, coming. The Epiphany (Twelfth Day), is kept to commemorate the manifestations of our Lord both as God and Man.

To the Epipbany, tradition assigned not only the worship of the Magi, but the baptism of Christ; the miracle of turning water into wine, and that of feeding the 5000, both considered to be typical of spiritual blessing; and which the eastern Christians, until shortly before the age of Chrysostom, when they adopted the enstom of the Latin church in this respect, celebrated also as the Anniversary of the Birth of Christ.—(Neale's Feasts and Fasts.)

JANUARY is named from Janus, to whom it was dedicated, because, from its situation, it might be considered to be retrospective to the past, and prospective to the opening year. The Anglo-Saxons called January, Woif-monath. Its holidays are very ancient; New Year's Gifts and Twelfth Day customs being as old as Rome itself; of the latter, Herrick sings:—

Give them to the king
And queene wassailling:
And thought with the ale ye be whet here;
Yet part ye from hence,
As free from offence,
As when ye innocent met here.

On the first Mouday (Plough Monday), after, the festivities terminated; for theu husbandmen resumed the plough.

The Snndays between the last Epiphany Snnday and Lent, should call us from the rejoicings of Cbristmas, and prepare us for profiting by the approaching

Late Winter begins with the year :-

Winter's white shrowd doth cover all the ground, And Caecias blows bis bitter blaste of woe; The ponds and pooles, and streams in ice are bound, And famished birds are shivering in the snowe. As the day wears,

Through the hushed air, the whitening shower descends, At first thin—wavering, till at last the flakes Full broad and wide, and fast, dimming the day With a continual flow.

Shakspeare says, applicable to this month:-

Never resting Time leads Summer on To hideous Winter, and confounds him there, Sap-checked with frost, and lusty leaves quite gone, Beauty o'ersnow'd and barren.

Yet, there is "good in every thing;" and the hardy band of boyhood begin the contest of life in the shower of balls at the snow statue; as Napoleon, when at school, at Brienne, constructed fortresses out of the same material. One of the weather-saws of the month tells us:—

If Janivcer Calends be summerly gay, It will be winterly weather till the Calends of May.

Let us sum up with the satirist :-

Froze January, leader of the year,
Minced pies in vain, and call's head in the rear—Churchill.

The last allusion is to an annual insult offered on the 30th of January, to the memory of the unfortunate Charles I.; but which has long since yielded to the milder humanities of the times.

Foremost in the list of Festivals stands the Lord's day, or Sunday; "the day of the resurrection, the queen, the chief of all days, in which our life arose, and the victory over death was gained by Christ;" the day also in which, as Justin, the Martyr, urges, God, out of darkness and the primal matter, formed a world. Next in rank to Sunday, at least, if the frequency of its observance be considered, stood the Saturday, or, as it is universally called by the early writers, the Sabbath; a day observed with the same religious services, in all respects, as the Lord's day, though a difference grew up between the eastern and western churches, upon the question whether it should be kept as a festival or a fast. To these weekly holidays were added others of only annual recurrence, commemorative either of the principal events in the history of our Saviour, or of the sufferings of his more eminent followers. These Feasts were preceded by Vigits throughout the night, kept in the churches, or, in the earlier times, around the tomb of the Saint.

Jeremy Taylor has left us these Rules for Duties on Christian Festivals: "After the solemnities are past, and in the intervals between the morning and evening devotion, (as you shall find opportunity), visit sick persons, reconcile differences, do offices of neighbourhood, inquire into the needs of the poor, especially house-keepers; relieve them as they shall need, and as you are able: for then we truly rejoice in God, when we make our neighbours, the poor members of Christ, rejoice together with us."

[COMPILED BY TORN TIMES.]

JANUARY.

NATURE is the general name for all things which are not the result of human labour or contrivance; the works of Nature, therefore, abound everywhere, and the science of Natural History may be considered to be, the knowledge of Nature in all her departments.

It is impossible to study any portion of this vast field, without finding that it is dependant on other portions. The brief life of the insect, for instance, depends on the time of existence of the plant by which it is nourished, and this plant in its successive developement, depends on its locality, the season of the year, on the state of the atmosphere, &c., yet we cannot call the season of the year or any of the other circumstances the cause of its existence, though no doubt can exist of such a connection. It is, therefore, highly desirable at all times in noting down any periodical phenomena, to also note all such that may happen simultaneously. In the course of this year we shall mention some that may be expected to happen in each month, in an easy manner, without the technicalitiess of science, in the hope that many of our readers may be thereby interested, and that others may be asisted in their pursuit of Natural History.



THE GOLDEN CRESTED WREN.

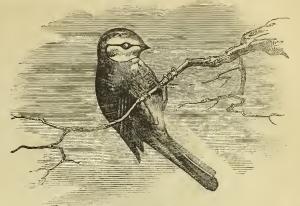
The length of this handsome little bird in its feathers is about three inches and a half; weighs about seventy grains; bill slender, straight, having an inclination npwards; eyes remarkably lively; the feathers on the crown are long, forming a crest of a bright gold colour, which appears brighter by being contrasted with a band of black, passing from the eyes to the extremity of the crest; this band it can erect at pleasure, and with it at times nearly obscures the crest; legs slender; in the female, the crest is of a pale yellow, and the colours in general incline to brown (Atlas des Oiseaux d'Europe.)

This is a very beautiful bird, and it is the smallest of all European birds; if the above be the average weight, it would take one hundred to weigh one pound avoirdnpoise. When stripped of its feathers, the length of the body does not exceed an inch, yet this bird braves onr severest winters, during which its sprightly note may often be heard, even whilst snow is falling. From the circumstance of these birds generally resorting to the tops of the largest trees, winter is the best time for observing them, as at other times they are concealed by the leaves. In severe seasons, it approaches the habitations of man like the redbreast, but it does not, however, come so close to the vicinity of houses, nor does it remain there so long as the redbreast. Indeed, from its light weight, enabling it to seek its food at the extreme ends of slender twigs, where the redbreast cannot be supported, its resonrces are greater than those of that bird. Their nest is composed of green moss, interwoven with wool, and lined so thickly with small feathers as to conceal the eggs, which are from seven to eleven in number, of a pinkish white, rather darker at the thick end, and scarcely larger than peas. They are so light that it takes about eight hundred of them to weigh one pound.

During the month of January, the redbreast sings; larks collect in flocks; the nutbatch is heard; the gray, white, and yellow wagtails appear; the missel thrush; the hedgesparrow; the greater titmouse; the thrush; the common wren; the skylark, the woodlark and the chaffinch sing. Rooks resort to their nest trees; jackdaws begin to frequent churches; tribes of small birds surround farmhonses for food, and to obtain shelter from the cold; and towards the end of January or the beginning of February, is heard the chirping of the blue titmouse; this bird is popularly known as the tom tit, and as such will be recognised by the following engraving.

This lively little bird is in length rather more than four inches; weighs about five drachms and a half; bill strong, sharp pointed, very thick at the base—the hinder claw very long. In the female the colours are somewhat duller than in the male.—Attas des Oiseaux at Europe.

The plumage of this common little bird is pleasing from its delicate colonrs. A large portion on-each side of the neck, a line over the eye leading to the back of of the head, and the forehead is white. A line of blackish-blue commences on each side of the base of the bill, passes the eyes, immediately under the line before mentioned to the back of the head, and surrounds the portion of white on each side of the neck—and continues up to the chin. On the lower part of the back of the neck is another portion of white. The head, the wings, and the tailare blue; the nuder parts yellow; and the legs are of a blueish grey.



THE BLUE TITMOUSE.

This bird feeds principally on insects, it is seen frequently in gardens and orchards, hanging from a branch, and minutely examining every crevice followed the eggs and larve of different insects. In winter, it will often pull off the buds of trees, and its operations have been much dreaded by gardeners. But the eminent naturalist, Mr. Selby, observes, that, "the trifling injury sometimes committed by the abrasion of a few blossom buds, is more than compensated by the destruction of innumerable larve, and eggs of the insect tribe, which are usually deposited in or about those essential parts of fructification, and which, if allowed to proceed through the necessary changes, would effectually check all hope of produce." And again, it is very likely that they never attack a single bud except they perceive evident traces of insects. It is not always satisfied with insects for its food; at times it will attack small birds, particularly such as are ill, which it dispatches with its bill, by cleaving their skulls and picking out their brains; they place the foot on their food whilst picking it to pieces; and they conceal what they cannot eat for a future occasion, by carefully covering it with leaves, or any other substance that may be near.

The nest is generally in the holes of trees, it is composed of moss, well lined with feathers, hair, and wool; and the female lays from six to eight eggs, of a clear transparent white, speckled with rust colour at the larger end.

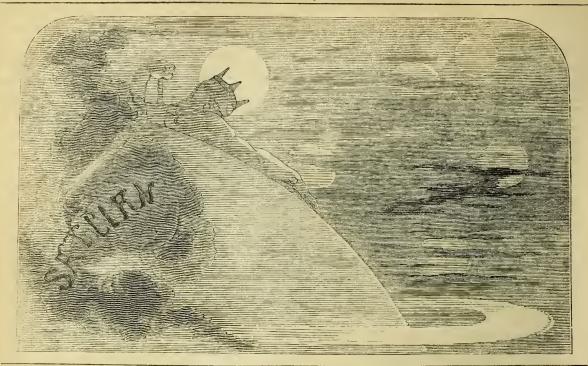
This bird is about the first among small birds, in discovering an enemy, a weazel or an owl; and it is distinguished above all others by its rancour against the latter, which it unremittingly persecutes whenever it ventures forth in daylight.

Insects are generally torpid, yet occasionally, on fine days, some will swarm under hedges in sunny situations; gnats may be seen playing about in the Sun's rays; the black slug, the gray slug, and the earth worm come forth chicfly at night in open weather.

Towards the end of the month the Snowdrop flowers, and if the mouth be mild the mezereon opens its delicate blossoms.



This is the first flower that awakes from the repose of winter, and cheers us with the re-animation of nature; and hence it has been made the emblem of consolation—as the dove was sent forth from the ark to ascertain whether the waters were abated, so does the Snowdrop seem selected by Flora, to find whether the frost be mitigated, and as a herald to announce the approach of Spring.



M	w	ANNIH THE ANNIE COMMENTS	1		JN.		[:	M	oon.		[Hig				Equ	idtion Time.	Day of
D	D	ANNIVERSABIES, OCCURRENCES, AND FESTIVALS.		ses-R.				rs-R.	Sou	ths.	Age	Mor	den i				dd.	the Year
	-			M.	0	7	n.	м.	H.	M.	n.	н.	м.	и.	M.	u.	ж.	
	5	4TH SUN. AFT. EPIPH.—Salmon Fishing begins	7	41 R	17	7	11	$55^{\rm s}$	After	noon	5	5	27	5	49	11	54	32
2	M	Candlemas Day	4	49 s	16	50	Mo	rning.	5	31	6	6	10	6	33	14	1	33
3	Tυ	St. Blaise—The patron saint of the wool-	7	38^{R}	16	32	1	4 s	6	21	D	6	55	7	18	14	8	34
4	W	combing craft; martyred under Dioclesian, A.D. 289	1	52 S	16	15	2	10 s	7	10	8	7	43	8	11	14	14	35
5	Тн	Sir Robert Peel born, 1788	7	34^{R}	15	56	3	8 s		59	9	8	47	9	27	14	19	36
	F	Charles II. d., 1685—Dr. Priestly, d., 1804	4	56 s	15	38	4	1 S	8	48	10	10	8	10	49	14	23	37
7	S	Mary Queen of Scots beheaded, 1587	7	30 R	15	20	4	47 s	9	36	11	11	29			14	27	38
8	S	SEPTUAGESIMA SUNDAY	4	59 s	15	- 1	5	25 s	10	22	12	0	6	0	38	14	29	39
9	M	Sir R. Peel's New Corn Bill introduced, 1842	17	27 ^R	14	42	5	58 s	11	7	13	1	3	1	25	14	31	40
10	Tu	Queen Victoria married, 1840	5	2 s	14	22	6	26 s	11	52	14	1	45	2	5	14	32	41
11	W	Venus sets at 7h. 56m. P.M.	7	24^{R}	14	3	6	3 s	Mon		(3)	2	23	2	38	14	32	42
12	Тн	Lady Jane Grey executed, 1544	5	6 s	13	43		_		35		2	54	3	9	14	32	43
13		Talleyrand born, 1754	7	20^{R}	13	23	7	54 R	ì	18	17	3	26	3	40	14	30	44
	S	St. Valentine.—At Rome, patron saints chosen	5	10 s	13	2	9	0 R	2		18	3	55	4	10	14	28	45
15	5	Sexagesima Sunday	7	16 R	12	42	10	6 R	$\bar{2}$	45	_	4	26	4	43	14	25	46
16	M	Capt. Cook killed, at Owhyhee, 1797, aged 51	5		12	21	11	15 R	$\bar{3}$	30	1	4	57	5	13	14	22	47
	T_{U}	Michael Angelo died, 1564	7		12	0	11	- ''	4	18		5	30			14	18	48
18		Martin Luther died, 1546	5	18 s	11	39	Moi 0	ning.	5		22	6	6	6		14	13	49
	Тн	Copernicus born, 1473—Galileo born, 1564	7	QR	11	18	1	33 R	6		a	6	49	7	- 1	14	7	50
	F	Jupiter sets at 11h. 25m. P.M.	5	21 s	10	57	2	37 R	6	58			41	8		14	$-i\mathbb{I}$	51
21		Trinidad taken, 1797	7	5 R	10	35	3	36 R	7		25	8	59.			13	54	52
		Quinquagesima (Shrove) Sunday	5	25 s	10	13	4	26 R	8	56		_	27	11			46	53
23		Sir Joshua Reynolds died, 1792	7	1 R		51	5	10 R	9		27	11	52	1 1	11	_	38	54
	Tu	SHROVE TUESDAY—St. Matthias	5	29 s	9	29			10	53		0	25	0	56		30	55
25		4 377 771 2 4 7	-	56R	9	29	J	40	11		0	1	22	1	- 1	13	20	56
	Тн	ASH WEDNESDAY—The first day in Lent. Formerly the consecrated palm branches used on Palm Sunday in the	-	32 s	_	15		noon.	11		믺	2	11	2		13	10	57
27		Formerly the consecrated palm branches used on Palm Sunday in the preceding year were preserved and hurnt on this day, and their ashes blessed and sprinkled by the Priest over the heads of the people—Barl	1		8	45 22	6	5 S	After 1	38	2	2	57	3	19	13	0	58
28		of fasex heneaded, 1001	0	52R	8	50	9	20 5	2	30	3		40	4	- 11	$\frac{13}{12}$	49	59
20	0	Mars sets at 11h. 45m. P.M.	0	30 9	/	99	1	34-1		0.01	ااد		401	-1	1 1	14	73	
		RIGHT ASCENSIONS AND DE	ECL	INAT	ONS	OF	TI	IE PI	LAN	ETS.								

	il]	31G	нт	ASC	ENSI	ONS	AN	D D	ECL	NATI	ONS	OF	THE	PL	ANI	ETS.								
Times of changes of the Moon, and when she is at her greatest distance		м	RCU	RY.			INAV	JS.			MAI	ıs.		1	JUPIT	rer.		1	SATU	B.N.			KARU	va.	
(Apogse), or at her least distance (Pengse) from the Earth, in each Lunation.	the	Right Ascensio		Doel tic Sou	n	Rig Ascer			lina-		ight naion.	t	clina- ion orth.	Rig		ti	lina- on rth.		ight maiou.	ti	lina- on oth.		ght nsion.	t	lina- ion orth.
First Quarter 3d. 5h. 11m. A.M				220		23h.	12m	00	44/8	lh.	36m.			2h.	5m	110		21h.	32m.	150		Oh.	28m.	20	14
Full Moon 11 9 12 ,,		20		21		23	15	0	41N		49	11	52	2	7	11		21	35	15	34	0	29	2	21
Third Quarter 19 4 44 ,, New Moon 25 7 32 P.M	1 7 2	20 3	()	20	23 30	23	14	1	44N		1	13	3	2	10	12 12	19	21	37 39	15	23	0	29	2	27 32
Anomae O O		21 4	9	16		23	1	2	24 N		13 26	14	12 19	9	16	12		21	42	15	. 0	0	3I	2	38
Perigee 24 2 ,,	26		6	13	2	22	50	1	55N		39	16	22	2	19	12		21	44	14	49	ŏ	32	2	44

Nors-Destination is angular distance from the Equator, and it is North or South according as the object is North or South of the Equator; when, therefore, an object is in the Equator it has no Destination.

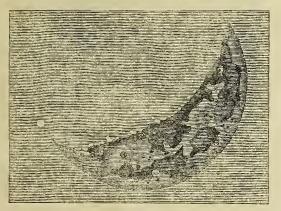
FEBRUARY.

THE drawing of Jupiter in last month, not only represents the relative positions of the Satellites at that time, but it is a correct drawing of the Planet; and it will be observed that he is surrounded with faint substances, which appear like streaky lines; these are called his belts, and they are at times more distinct than at other times. When the Satellites interpose between the Sun and Jupiter, they produce solar eclipses precisely similar to those which the Moon causes at the Earth, when she is between the Sun and the Earth, and of these more than 350 occur in one of our years.

When the Satellite passes behind the Planet, with respect to a spectator on the Earth, it is hidden from us. And when it passes from behind the Planet it reappears; in both cases it is an eclipse, and designated an immersion in the former, and an emersion in the latter case. These phenomena happen at some distance from the body of Jupiter, except when he passes the Meridian at midnight, and during the month preceding and following that time; at these times the eclipse takes place near to the body of the Planet; and when he passes the Meridian before midnight, it takes place on the West side of the Planet; and on the East, when he passes after midnight. During the whole of the year 1846, they will all appear West of the Planet, except in the month of December, when they will be to the East of him. By means of the rapid revolution of the Satellites, these eclipses occur with great frequency. The first being eclipsed every 42h.; the 2nd., every 85h.; the 3rd., every 7 days, and the 4th., every 17 days. The times at which these henomena happen, and visible to us, are noted in every month.

At times, though it is but seldom, one Satellite is in contact, or passes over another; such an occurrence happened in 1843, on Sept. 10th, of the 1st and 3rd Satellites .- (See Greenwich Observations, 1843; pages 108 and 109.)

The diameter of the Planet is about 90,000 miles, and the most recent determination of the time in which the Planet turns completely round on his axis, or the length of one of his days is 9h., 55m, 21s .- (See Professor Airy's paper on the time of rotation of Jupiter in the IX. Vol. of the Memoirs of the Astronomical Society).



On February 1, during the evening, the Moon, Jupiter and Mars, are near to each other. At 10h. 3m., the Moon will occult Mars, or Mars will become hidden by the Moon, and remain thus hidden for twenty minutes, till 10h. 23m., at which time he will re-appear at the lowest part of the Moon. The phenomeua is represented in the accompanying drawing. The Planet will disappear on the left hand side of the Moon, and a little above its enlightened part.

At the time of the phenomena the Moon will be due West. The planet Mars during this month will be near to Jupiter, appearing W. of him till the 15th and

16th days, at which time he will be immediately above Jupiter; and he continues above him by quantities becoming greater and greater, day by day. After the 16th day he will be E of Jupiter, and will be more and more separated from him day by day.

The mean distance of Mars from the Sun, is about once and a half that of the Earth; or, when he is nearest to the Earth, he is about half as far from us as we are from the Sun; his diameter is about 4.100 miles.

Mars' apparent magnitude is very variable, arising from his varying distance from the Earth, he being five times farther from us at the time he is in conjunction with the Sun, than when he is in opposition to the Sun; he also varies greatly in his apparent brightness, arising from sometimes presenting towards us the whole of his enlightened hemisphere, and sometimes only part. In consequence of these changes he varies, in particular instances, from being small and scarcely visible, to being bright and large. He may be easily distinguished from any other Planet or Star by his red appearance; this appearance is imputed to the density of his atmosphere. His Poles,* like those of the Earth, appear to be covered with perpetual snow. The brightness of the Polar regions has led to this supposition, and it appears to be in some measure confirmed from the circumstance of this brightness almost disappearing after being long exposed to the Sun; and being most evident when just emerging from the long night of his Polar winter The analogy between the Earth and Mars, is greater than between the Earth and any other Planet. The length of his day is nearly the same. His seasons are not very different. His year, though nearly equal to twice the length of ours, yet, as compared with the other Planets, Jupiter, Saturn, and Uranus, agrees most nearly with that of the Earth.

A few days after he has been in conjunction with the Sun, (that is, when Mars has been in, above, or below that straight line joining the Earth and the Snn, produced beyond the Sun to the distance of Mars), he rises some minutes before the Sun, and his motion is nearly towards the East. But the Earth's motion is nearly twice as great as that of Mars, and they are both moving in the same direction; therefore, Mars appears to be moving towards the West-if his motion be compared with the fixed stars, it will be found to be towards the East. This continues for nearly a year, or till his angular distance from the Sun is 137°: he then appears to be stationary for a few days. After this his motion is towards the West, and continues so till he is 180° distant from the Sun, or he is in, above, or below the straight line drawn from the Sun through the Earth and continued to Mars; or he is in opposition, and he passes the Meridian at midnight. His motion towards the West is now rapid-after some time it is slow, and when his angular distance is again 137° from the Sun, he is stationary as before.

During the whole of 1846, he will be dull and small. The time of rotation on his axis is 24h. 39m. 21s., and, therefore, the length of his day is nearly the same as one of ours. The Drawing of the Moon is a correct representation of her when she is from three to four days old, and to which Drawing, when speaking of her in a future month, we shall allude.

However, the Sun, as viewed from Mars, appears less by one-third than as viewed from the Earth: and consequently the degree of light and heat received at Mars, is less than that received by us, in the proportion of 4 to 9; or the Planet receives less than half that which we receive. No Satellite has ever been seen in attendance on him.

Ou February 1st, Mars will be found in a line joining a Arietes and a Ceti, and at about one-third of the distance between those stars from the latter star; during the month he will move towards the Pleiades, and at the end of the month he will assist in forming two equal triangles, the one consisting of Mars, a Ceti, and the Pleiades; the other Mars, a Arietis, and a Ceti. Jupiter, on the first of the month, will be found by considering a line drawn from the Pole Star through γ Andromodæ, and α Arietis, to 11° S. of the latter star; and at the end of the month he will be nearly midway between a Arietis, and a Ceti.

* The Poles of a Planet are those parts of its surface where the terminations of that imaginary line upon which the Planet appears to revolve occur.

			ASTRONOMI	CAL OCCURREN	CES IN FEBRUA	RY.		
	PLANET	s.	,	JUPITER'S	SATELLITES.	OCCULTATION	OF STARS BY	THE MOON.
Names	Time of passing the Meridian or Sonthing,	When near the Moon	Angular Distance from the Moon	Lelip 1st. Sat.	ses of 2nd. Sat.	Names of the	Times of disappearance and	At the dark or bright limb
	on the 14th. day		South or North	Emersion	Immersion and Emersion		re-appearance	of the Moon.
Mercury	н. м. 11 19 а.м.	D. 11.	DEG.	D. H. M. 6 9 38 р.м.	D. H. M. 7 5 58 7 8 25 P.M.	e Tauri . }	D. H. M. 5 1 7 A M.	Dark
Venus	1 34 р.м.	26 5 A.M.	5 North	15 6 3 р.м.	1 0 20 3	,	1 53 ,,	Bright
Mars	4 32 г.м.	1 9 г.м.	^π / ₄ South	22 7 59 Р.М.	2.1.0	B1 Scorpii . }	19 5 14 а.м.	Dark
Jupiter :	4 35 P.M.	2 10 A.M.	2 South		3rd. Sat.	р вестри .	6 27 "	Bright
Saturn	0 2 P.M.	25 1 а.м.	6 South		р. н. м. 7 9 10 р.м.			
Uranus	2 53 р.м.				Immersion.			

February 6th, 8h. 29m. A.M., Mercury at the greatest distance from the Sun.
February 7th, 4h. 4m. P.M., Venus stationary with respect to the Fixed Stars.—(See May.)
February 8th, Jupiter's Satellites all East, and on the 20th, they are all West of the Planet at about 7h. in the evening.
February 10th, 8h. 0m., P.M., Venus the nearest to the Sun.
February 16th, 5h. 10m. A.M., Mars and Jupiter near together, Mars being 2° N. of Jupiter.



THE CHILD ABROAD .- THE FIRST STRATEOY: BIRD-CATCHING.

THE Pagan Romans celebrated their Juno Februata on the day which is the vigil of Candlemas, February 1; and hence the name of the month February is unquestionably, derived.

Condlemas is evidently traceable to the ancient custom of lighting up charches and chapels with candles and lamps, and carrying them in procession. The practice of lighting the churches has been discontinued in this country since the second year of Edward the Sixth; in the Romish church, the original name, and all its attendant ceremonies, are still retained. Herbert, in his Country Parson, refers to a relic of this practice, in the custom of saying, "when light is brought in, God sends us the light of Heaven—and the parson likes this very well. Light is a great hlessing, and as great as food, for which we give thanks: and those that think this superstitious, neither know superstition nor themselves."

St. Valentine's Day is of Pagan origin; but the poets refer it to the rural tradition of birds choosing their mates on this day:—

osing their mates on this day:—
Hail, Bisbop Valentine, whose day this is I
All the air is thy diocese,
And all the chirping choristers,
And other hirds are thy paristioners.
Thou marry'st every year,
The lynique lark, and the grave whispering dove;
The sparrow that neglects his life for love;
The bousehold hird with the red stomacher;
Thou mak'st the hlackhird speed as soon,
As doth the goldünch, or the halcyon!

Dr. Donne.

Mrs. Bray relates a vestige of the custom of making presents remaining to the present day in Devonshire; where, on St. Valentine's Day, a young woman occasionally thus addresses the first young man she meets:—

Good marrow, Valentine, I go to day, To wear for you what you must pay, A pair of gloves next Easter-Day.

"It is not, however, very common to send the gloves, unless there is a little sweethearting in the case." The yellow Crocus blowing plentifully about this time, has been called Hymen's Torch, and Flower of St. Valentine; or, as the the old verse says,

The Crocus blows before the shrine, At vernal dawn of St. Valentine.

Septuagesima, &c.—The first Sunday in Lent being forty days before Easter, is, on that account, called Quadragesima, from the Latin for forty; and fifty, sixty, and seventy being the next round numbers above forty, the first, second, and third Sundays before Quadragesima, are called Quinquagesima, Sexagesima, and Septuagesima, from the Latin for their round numbers.

Collop Monday, or Shrove Monday, the day hefore Shrove Tuesday, was formerly the last day of flesh-eating before Lent, when our ancestors cut their flesh-meat into collops, or steaks, for salting or hanging np till Lent was over; hence, in many places, it is still customary to have eggs and collops or slices of bacon, at dinner on this day, as well as pancakes on the following day. These celebrations were termed "Shrovings," which Sir Thomas Overbury, thought a

"Franklin," (see Chaucer), might observe without regarding them as "relique of Popery."

Shrove Tuesday, (tho day before the first day of Lent), is so called, because in Romish times it was usual to confess on that day, which act is expressed by the Saxon terms Shrive or Shrove. It was formerly a season of extraordinary sport and feasting, an apprentices' holiday, &c. Cock-fighting and Throwing at Cocke were almost universally Shrove Tuesday Sports: the former cruelty was popular in Greece; English cocks are mentioned by Cæsar; but, the first notice of English cock-fighting is about 1170. The satiric pencil of Hogarth, and the moral muse of Cowper, have almost abolished this modern harharism. The wicked practice of throwing at a Cock tied to a stake, on Shrovetide, is said to have an allusion to the indignities offered to the Saviour of the World hefore his Crucífixion; hy others, this annual torture of the Cock is associated with St. Peter's crime, in denying his Lord and Master. The persecution was extended to the Hen: hence, the Ploughman's holiday on Shrove Tuesday, when, "after confession, he was suffered to thresh the fat Hen" Eating Pancakes and Fritters on this day is a harmless observance: according to Fosbroke, Pancakes are taken from the heathen Fornacalia, celebrated on February 18th, in memory of making bread before ovens were invented by the goddess Fornax. Brand considers that we have horrowed the custom from the Greek Church. The frying of the Pancakes was formerly commenced, universally, at the ringing of "the Pancake Bell;" and it was a holiday at the Colleges and Public Schools, where the Pancake was thrown over the bar or curtain dividing the upper and under forms. In Scotland, Crowdie (oatmeal and water) is eaten on this day, as Pancakes are in England. Football was another common Shrove Tuesday sport: it is still played in Derby, Nottingham, Kingston-upon-Thames, and a few other towns.

Ash Wednesday, the first day of Lent, originated in the blessing of Ashes on that day, "to put in remembrance every Christian man, the beginning of Lent and Penance, that he is but ashes and earth, and thereunto shall return;" and the ceremony was reserved at the Reformation.

The Carnival,

Some weeks before Shrove Tuesday comes about,

is still celebrated, on the Continent, in

All countries of the Catholic persuasion.

Rome is possessed by the gay madness for cight days; its characteristics being the masquerade in the streets, showers of confetti or mock sweetmeats, firing of mortars, racing of horses without riders, and the lighting of moccoletti, or wax tapers. At Naples, the Carnival is much like that at Rome; at Genoa it is indifferent; at Venice, the festival lasts from Twelfth Day till Shrove Tuesday. At Paris, it is principally kept on the three days preceding Ash Wednesday; and npon the last day is the procession of the havy-gras, or Government prize ox, through the streets; then all is quiet until the Thursday of Mid-lent, or Licardine for which day only, the revelry breaks out wilder than ever.

FEBRUARY.

DURING this month the brown wood owl hoots; the common hen sits; the turkey cock struts and gobbles; the yellow hammer sings; the raven builds; rooks pair, as also do partridges; missel thrushes pair; the stone curlew clamours; the ring-dove coos; redwings and fieldfares depart; and the green woodpecker makes a loud cry.



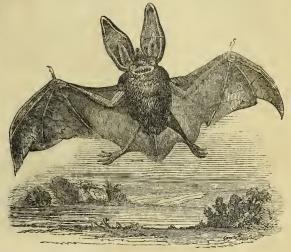
THE GREEN WOODPECKER.

Woodpeckers are, generally speaking, handsome birds, neatly and stoutly made. Their first labours of hammering the tree appear to be the pairing call, The male begins this curious species of wooing, by beating against a hollow portion of the tree, on a female replying, a place is selected in which to build the nest. If it be necessary to excavate any portion of the tree in order to make the hole large enough to receive the nest, the pair labour and feed by turns until this is done. The largest of the British kinds of woodpeckers, is the Green Woodpecker, and which is represented in the above engraving. The following description of it is from "Bewick's British Birds."-" Its bill is two inches long, of a triangular shape, and of a dark horn colour: the outer circle of the eye is white surrounding another of red; the top of the head is of a bright crimson, which extends down the hinder part of the neck, ending in a point behind; the eye is surrounded by a black space, and from each corner of the bill there is a crimson streak pointing downwards; the back and wing coverts are of an olive green; the rump yellow; the quill feathers are dusky, barred on the outer web with black and white; the bastard wing is spotted with white; the sides of the head and all the under parts of the body are white, slightly tinged with green; the tail is marked with bars like the wings; the legs are greenish. The female differs from the male in not having the red mark from the corner of the mouth." This is the most common of the woodpecker genus in this country, and may be met with in most parts of this island, where it is readily discovered by its discordant note; and also by the noise it makes when seeking its food, which consists entirely of insects, their eggs, and larvæ. When it discovers a tree that is decayed, it tries with its bill different places, till by the sound it discovers the part that requires the least labour to perforate; it then pecks with its bill till it arrives at the unsound part, which generally affords a plentiful repast. The rapidity of the strokes is so great that they can scarcely be counted; nor can the motion of the head and neck be seen. The tongue is furnished with barbs, and with a glutinous secretion, by means of which it can readily take up small substances, and convey them to its mouth. It also feeds on beetles and ants, and it is more frequently seen on the ground than the other kinds of woodpeckers-and may be seen inserting its tongue into ant holes, from which it draws out these insects in abundance. It will sometimes make an aperture in the side of an ant hill with its bill and feet, and then feeds on the insects and eggs at its leisure. They usually lay five or six eggs in the hollow of a tree, at the depth of two feet or more from the entrance. The young ones climb up and down the tree before they are able to fly. When flying their motion is undulatory and irregular, proceeding forward by jerks, and they take but very short flights.

Occasionally, either the nettle or the brimstone butterfly appears; field crickets open their holes; frogs croak and spawn; the toad appears, and bats may frequently be seen if the temperature has been for some time at or above 50°. Following is the figure of one of the most common of the British bats,

Its length is one inch and three quarters, the extent of its wings is seven inches. Its ears, by which it is distinguished, are more than an inch in length; slightly rounded at the tips, and furnished with a kind of secondary auricle, so placed as to serve for a valve or guard to the auditory passage. It is most commonly seen fluttering about during the evenings of Summer and Autumn. They are supposed to produce two young ones at a birth, which they suckle for sometime, the young being naked and helpless; capable only of clinging to the teats of their mother.

which they do most tenaciously. This habit is necessary, for the mother neither lies nor sits on the ground when she suckles her young, but hangs suspended to the branch of a tree or otherwise. When she goes ont to feed, she bears the young thus attached to her body, and continues doing so till they are capable of flight. They lodge in old buildings, hollows of trees, or caves. In these recesses they pass the winter in a torpid state till the warmth of the atmosphere awakes them from their slumbers. The general appearance of the bat, together with its appearing in the dim twilight, at times when ignorance converts anything white into ghosts, has excited the idea of something hideous—and, therefore, the



THE LONG-EARED BAT.

ancients consecrated it to Proscrpine, Queen of Hell. Painters usually exhibit fieuds and demons with the leathern wings of the bat. Nevertheless, the bat is more useful than hurtful to man, by the destruction of so many insects, which are its favourite food. From experiments made by Spallanzani, on this species of bat and on others, it appeared that they would fly with precision in the darkest chamber without touching the walls, when their cycs have been closely covered; or even entirely ont, and their sockets covered with leather. It would, therefore, appear that they must be possessed of some additional sense which enables them to do this.

February is usually found to be the most barren month in the year for flowers. The Crocus will, however, blossom; annexed is its representation:—



THE CROCUS.

This is one of the flowers of which Homer has composed the general couch of Jupiter and Juno.

And sudden hyacinths the turf hestrow, And flow'ry crocus made the mountain glow. ILIAD, BOOK 4.

No flower is so sensible of the enects of light and heat as the crocus. Its petals expand during the day, and close at night. But they will expand at night under the light of a lamp or candle; or if placed within the influence of the heat of a fire, though shaded from the light of it, the petals open in such circumstances as readily as they do in bright light.



	Sun. Moon. High Water at Lou- Equation Description Description													
M D	W	ANNIVERSARIES, OCCURRENCES, AND FESTIVALS.	Sets-	S. ti	i. Declina- ion South	Rises-R. Sets-S.	Souths.	ge.	don B	ridge. Afternoon	Equation of Time. Add.	Day of the Year		
1	S	1st Sunday in Lent—St. David—St. David, the	6 48	3 R	7 36	Afternoon.	Afternoou	4	4 23	4 43	12 37	60		
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	M Tu	patron saint of Welchmen, was Archhishop of Menevy. He was a man of cousiderable learning, and was reputed to possess the power of performing miracles. He died in 544, and was buried in the church of St. Andrew; but his remains were afterwards removed to Glastonhury Abbey.	$\begin{bmatrix} 5 & 39 \\ 6 & 44 \end{bmatrix}$	1	7 14 6 51	11 55 8	4 13 5 3	5	$\begin{bmatrix} 5 & 2 \\ 5 & 40 \end{bmatrix}$	5 21 5 59	$\begin{vmatrix} 12 & 25 \\ 12 & 12 \end{vmatrix}$	$\begin{vmatrix} 61 \\ 62 \end{vmatrix}$		
4	W	Ember Day—The Wednesday, Friday, and Satur-	5 43	- 1	6 28	Morning:	5 54	D	6 20	6 43	12 0	63		
5	1	day of this week, are called Emher days, and the week in which they occur Emher week. On Emher days our forefathers are no bread, but what was			6 5	1 53 s	6 43	8	7 6	7 31	11 46	64		
6	S	haked in a simple and primitive fashion under hot ashes; hence the name. Venus rises at 3h. 2m. A.M.	5 40		5 41 5 18	$\begin{bmatrix} 2 & 41^{8} \\ 3 & 23^{8} \end{bmatrix}$	8 18	9	$\begin{array}{ccc} 8 & 3 \\ 9 & 22 \end{array}$	$\begin{bmatrix} 8 & 41 \\ 10 & 5 \end{bmatrix}$	11 32	65		
8	5	2ND SUNDAY IN LENT—Raphael born, 1483	5 50		4 55	3 58 s	$\begin{vmatrix} 0 & 10 \\ 9 & 4 \end{vmatrix}$	1	10 45	11 26	11 3	67		
9	M	£1 notes issued, 1797	6 31		4 31	4 28 s	9 49 1	2	0.00	$\begin{array}{ccc} 0 & 2 \\ 0 & 5 \end{array}$	10 47	68		
10	TU	Jupiter sets at 10h. 32m. P.M. Bishops excluded Parliament, 1640-1	$\begin{vmatrix} 5 & 53 \\ 6 & 26 \end{vmatrix}$		4 8 3 44	4 55 s 5 19 s	10 32]	3	$\begin{array}{ccc} 0 & 32 \\ 1 & 15 \end{array}$	0 55 1 35	$\begin{vmatrix} 10 & 32 \\ 10 & 16 \end{vmatrix}$	69 70		
12	Тн	C Cout Disham of Dame Markey 500	5 57		3 21	5 41 s	11 59	5	1 55	2 13	9 59	71		
13		Georgium Sidus discovered, 1781	6 21		2 57	Afternoon,			2 27	2 41	9 43	72		
14 15	S	Admiral Byng shot, 1757 3rd Sunday in Lent) S ; R	$\frac{2}{2} \frac{34}{10}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Morning. 1	7	$\begin{array}{cccc} 2 & 58 \\ 3 & 27 \end{array}$	3 13 3 43	$\begin{bmatrix} 9 & 26 \\ 9 & 9 \end{bmatrix}$	73 74		
16	M	Gustavus shot, 1792—Battle of Culloden, 1746		S	1 46	10 16R		9	3 59	4 15	8 52	75		
17	Tu	St. Patrick—A grand festival of the church of		- 1	1 23	11 23 ^R		0	4 32	4 50	8 34	76		
$\begin{vmatrix} 18 \\ 19 \end{vmatrix}$	$T_{\rm H}$	make himself as happy as a Welchman does on the lat of March. The Irish venerate St. Patrick, as the introducer of Christianity Into Ireland. He is supposed to have heen a Scotchman by hirth.	U	3 S 7 R	$\begin{array}{ccc} 0 & 59 \\ 0 & 35 \end{array}$	Morning.	$\begin{vmatrix} 3 & 58 & 2 \\ 4 & 52 & 2 \end{vmatrix}$	$\frac{1}{2}$	5 7 5 45	5 25 6 6	8 16 7 58	77 78		
20	F	Mars sets at 11h. 41m. P.M.	6 11		0 11	1 27 R	5 49		6 30	6 55	7 40	79		
$\begin{vmatrix} 21 \\ 22 \end{vmatrix}$	S	Benedict 4TH SUNDAY IN LENT—Goethe died, 1832	$\begin{vmatrix} 6 & 3 \\ 6 & 14 \end{vmatrix}$		North.	$\begin{bmatrix} 2 & 20^{ \text{R}} \\ 3 & 5^{ \text{R}} \end{bmatrix}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		7 25 8 40	7 57 9 25	7 22	80 81		
23	M	Weber died, 1829	5 59		1 90	3 42R		6	10 12	10 56	6 46	82		
24	Tυ	Venus rises at 4h. 27m. A.M.	6 17	7 5	1 23	4 15 ^R	9 35 2	7	11 35		6 27	83		
$\begin{vmatrix} 25 \\ 26 \end{vmatrix}$	W TH	Annunciation—Lady Day—This day is more fami- liarly known in Englaud as Lady-day. It is kept as a festival in the English	6 20		$\begin{array}{cc} 1 & 47 \\ 2 & 10 \end{array}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{vmatrix} 10 & 29 & 2 \\ 11 & 22 & 2 \end{vmatrix}$	8	$\begin{bmatrix} 0 & 9 \\ 1 & 6 \end{bmatrix}$	$\begin{array}{ccc} 0 & 39 \\ 1 & 30 \end{array}$	6 9 5 50	84 85		
27	F	church, in commemoration of the Incarnation of Christ In England it is one of the quarter days—on which rent and other dues become payable.	5 50		2 34	5 37R	Afternoon		1 50	2 13	5 32	86		
28	-	Abercromby died, 1801	6 24	- 1	2 57	Afternoon,	1 7	1	2 36	2 56	5 14	87		
$\frac{29}{30}$	S	5TH SUNDAY IN LENT—Siege of Acre, 1799 Allied Sovereigns entered Paris, 1814	$\begin{vmatrix} 5 & 45 \\ 6 & 28 \end{vmatrix}$	- 1	3 21 3 44	9 33 s	$\begin{bmatrix} 2 & 0 \\ 2 & 52 \end{bmatrix}$	2 3	3 17 3 56	3 37	4 55 4 37	88 89		
31	Tu	Mercury sets at 8h. 26m. P.M.	5 41	R	4 7	11 40 s	3 44	4	4 36	4 55	4 18	90		
-		RIGHT ASCENS	IONS	AND	DEC	LINATION	S OF TH	E	PLANET	s.				
Tie	an of	phayers of the Moon and IDays Mancrey Wayne			-	******				1		-		

MARCH

When the constellation Orion is near the meridian it is so well surrounded with stars, as to present the finest view of the heavens in this hemisphere, and it will be in this position during the evenings of the first months of the year, at the following times: -On the first day of January, at 11h.; on the first day of February, at 9h.; and on the first day of March, at 7h; and on intermediate evenings at intermediate times; therefore, the following remarks apply as well to these months, at those times, as they do to March. The following is the position of the principal constellations. Between the horizon and the Pole Star is a part of Draco; between the Pole Star and the Zenith is Camelopardalus; Auriga occupies the Zenith, which is indicated by the bright star Capella and β Aurigæ, now being near the Zenith; below Auriga is Orion; below Orion is Lepus. To the E. of the meridian is the constellation of the Lynx, situated between Auriga and the Great Bear; below the Lynx are Gemini, or the Twins, Cancer and Canis Minor; to the E. of the latter are llydra and Leo. To the W. of the meridian and of Auriga, is Perscus, and under that is Taurus, and to the W. of Taurus is Aries; helow Taurus is Eridanus, and below Aries is Cetus, a small part of which is setting. To the N. the constellations, Cepheus and Cassiopeia are W. of the meridian, and the latter may be distinguished at all times by the stars within it, forming the letter M or W. These two constellations are situated in the Milky Way, where it is nearest to the Pole Star. A little N. of W., at an elevation of 35° is Andromeda, and immediately below it is Pegasus, a part of which is setting; the brightest star in Andromeda, with three bright stars in Pegasus, form the large square or trapezium of Pegasus, and which will be readily distinguished. At an elevation of 15° in the N.W. by W. is Cygnus; Lyra is setting N. by W.; Corona Borealis, or the Northern Crown, is rising in the N.E. by N., and between it and the Great Bear is a part of Bootis, and in the E. hy N. Virginis is rising.

Orion may be considered as the most beautiful of all the constellations; the principal stars in it are represented in the following Drawing, which, being correct, the constellation will be immediately recognised, and will act as a good guide to other stars.

a Orionis has "variable" attached to it, being one of those stars whose magnitude is variable-(See Sir J. Herschel's account of its variability :- Memoirs Astronomical Society, Vol. XI). We now proceed to explain the method of finding some of the principal stars visible during the evenings in the first months of the year. To a beginner, a moonlight night, when not too bright, is the best to learn some of the principal stars, because on such nights the smaller stars are not visible. Assuming that the observer has made himself acquainted with the Pole Star, the Great Bear, Capella, and the stars in the constellation of Orion-we proceed as follows:

In the above Drawing, a line from δ through € and \$ soon meets with Sirius the Great Dog Star, at the angular distance of 23° from & and 6° W. of Sirius is \$ Canis Majoris.

Rigel.

An imaginary line from the Great Bear to Capella continued onwards points out the Pleiades; about midway between γ Orionis (See the above Drawing,) and the Pleiades is the bright star Aldebaran, of a reddish tint. A line from the Pole Star to midway between the Great Bear and Capella passes to the constellation of

the Twins, and to the stars Castor and Pollnx. A line from Rigel (See the above Drawing) passing through € Orionis also passes to Castor and Pollux. A line from Pole Star passing between Castor and Pollux, and continued onwards leads to Procyon the Little Dog Star. A line from Procyon to Sirius leads to a Columbæ, a bright star near the horizon. A line from Capella passing some distance to the left of Castor and Pollux leads to Regulus, as also a line from Aldebaran, a little to the right of these stars, leads to the same star.

A line from Capella through the Pleiades, leads to a Ceti, at the distance of 23° from the Plciades, as does a line from a Orionis passing γ Orionis, lead to the same star. A line from Castor through Pollux leads to a Hydra, situated about 12° above the horizon in the S.E. by S. A line from \$\beta\$ Aurigæ, through Capella, and continued 34 degrees, leads to 7 Andromedæ; the same line continued 13 degrees further mects with \$\beta\$ Andromedæ; and continued 14 degrees further meets with a Andromoda, at an elevation of 18 degrees above the horizon in the W.N.W. The same line continued 20 degrees farther meets with a Pegasi, at an elevation of 7 degrees above the horizon in the W. by N.

About midway, between Capella and Y Andromedæ, are two stars, usually brighter than several others which are about this place, separated from each other by 10 degrees; the northern one is a Persii; the southern one is that very remarkable star \$\beta\$ Persii (Algol.) At times this star shines as brightly as a star of the second magnitude, and at other times only as bright as one of the fourth magnitude; the interval of time between these different degrees of brightness is only 69 hours. A line from the Pole Star, through \(\gamma \) Andromedæ, leads to α Arietis; these two stars, with β Andromodæ, form a conspicuous trianglo.

At the distance of 31 degrees West of the Pole Star, is \$\beta\$ Cassiopex, the brightest of the stars in that constellation.

A line from β Cassiopeæ, through α Andromedæ, leads to γ Pegasi; these two stars, with α and β Pegasi, form that conspicuous square in Pegasus before referred to.

At an elevation of 15 degrees above the horizon in the N.W. by W., is α Cygni; and at an elevation of 12 degrees above the horizon in the E. by N., is β Leonis, just above the head of the Virgin now rising.

A line from γ in the Great Bear through δ (See the Drawing in January) continued 15° meets with a Darcons. Below the Pole Star at the distance of 38° are two bright stars, the one to the East is \$ Draconis; the one to the West

Throughout these disrections for finding the stars, whenever distance is mentioned it is to be considered as Angular Distance, the method of easily and correctly estimating which is fully explained in October.

That part of the Milky Way which is visible during the evenings of the first months in the year, may be traced as follows:-Starting from Cassiopeia and Perseus, which constellations are nearly covered by it, it passes by Auriga, the star Capella being a little N. of it , passes between Taurus and Gemini, over a part of Orion, being a little N. of the star a Orionis, and so down to the horizon and below it; after having reached its most southern extreme, it returns northward, dividing itself into two streams, and these parts become visible in the evenings during the last months of the year, and will be there spoken of.

During the month Venus is a morning star, and she will be nearer to the star a Aquarii (to find which see the month of November) than to any other star.

Jupiter is about 10° South of the Pleiades, and Mars is a little East of Juniter.

The Pleiades, Jupiter and Mars will form a neat triangle throughout the month.

ASTRONOMICAL OCCURRENCES IN MARCH.

	PLANETS.			JUPITER'S	SATELLITES.	OCCULTATION	OF STARS BY TH	E Moon.
Names	Time of passing the Meridian, or Southing, on the 15th. Day	When near the Moon	Angular Distance from the Moon North or South	1st. Sat.	ses of 2nd. Sat. Emersion	Names of the Stars	Times of disappearance and re-appearance	At the dark or bright limb of the Moon
Mercnry	0 43 P.M. 10 47 A.M. 3 52 P.M. 3 0 P.M. 10 21 A.M.	D. H. 28 3 2 2 P.M. 2 2 A.M. 29 10 P.M. 24 4 27 2	DEG. 1 North 1½ North 1 South A little South 6½ South 3 South	D. H. M. 1 9 55 P.M. 17 8 15 /	D. H. M 11 8 7 P.M. 3rd. Sat. D. H. M. 15 7 23 P.M	κ Caneri {	D. H. M. 9 10 38 P.M. 9 11 48 P.M. 15 3 41 A.M. 15 4 51 A.M.	Dark Bright Bright Durk

March 2d, 9h 12m., Venns in inferior conjunction with the Sun.—(See the month of May.)
March 6th, 0h. 46m. A.M., Mercury in superior conjunction with the Sun.—(See the month of September.)
March 6th, and 27th, Jupiter's Satellites all on the W. side, and on the 16th. and 30th. they are all on the East side of the Planet, at about 7h. in the evoning.
March 20th, 1lb. 46m. F.M. the Sun enters Aries. Spring commences.
March 21st, 6h. 47. F.M. Venus stationary with respect to the fixed Stars.—(See May)
March 23th, 6h. 4m., Mercury the nearest to the Sun.
March 21st, 6h. 15m. A.M., Mercury at the greatest elongation, being East of the Sun 19°.—(See September.)



CHILDHOOD SHEEING THE EARLY FLOWERS .- THE FIRST GAME OF SKILL.

March, named from Mars, the god of war, was the commencement of the Roman year, and was, in fact, so considered in England before the alteration of the style; the legal year commencing on the 25th of March. Our Anglo-Saxon ancestors called it Length-monath, "because the days did then begin to exceed the nights in length. There is an old proverb which charges March with borrowing certain days from April; and these, being generally stormy, our forefathers endeavoured to account for this circumstance by pretending that March borrowed them from April, that he might extend his power so much longer. "Those," says Dr. Jamieson, "wbo are much addicted to superstition, will neither borrow nor lend on any of these days. If any one would propose to borrow of them, they would consider it as an evidence that the person wished to employ the article borrowed for the purpose of witchcraft against the lenders." There is a different proverb relating to this month, viz., that "A bushel of March dust is worth a King's ransom; "thereby expressing the importance of dry or dusty weather at this particular season of the year, in an agricultural point of view.

St. David founded many monasteries and religious honses, and built a hermitage and chapel in the vale of Llanthony, near the Black Mountains:—

le velle of Llanthony, near the Black Mount A little lowly hermitage it was, Down in a dale, hard by a forest's side, Far from resort of people, that did pass I ut travel to and fro; a little wyde There was an holy chapelle edifyde, Wherein the Hermit dewly wont to say His holy things each morn and eventyde; Therebye a christall stream did gently play, Which from a sacred fountaine welled forth away.

The custom of Welshmen wearing leeks on St. David's Day, has been traditionally referred to the Britons, under their general, St. David, gaining a victory over the Saxons, and transferring from their caps to their own, leeks, as signals of triumph. Sir Samuel Meyrick discredits this story; and infers from some lines of the time of James I., that the leek was assumed npon, or immediately after, the battle of Bosworth Field, which was won by Henry VII., who had many Welshmen (his countrymen), in his army, and whose yeomen-guard was composed of Welshmen; and this inference is strengthened by the fact, that the Tudor colours were white and green, the colours of the leek. Still, this explanation is shaken by the fact of the leek being a native of Switzerland, and, according to the Hortus Kewensis, not introduced into England till about the year 1562. Churchill thus satirises the custom:—

March, various, fierce, and wild, with wind-cracked cheeks, By wilder Welshman led, and crowned with Lecks.

Lent is commonly said to be named from a Saxon word for Spring. It was originally called Quadragesima, and only lasted forty hours, from 12 on Good Frlday to Easter morn; but it was gradually extended to forty days, after the fasts of Moses, Dent. ix.; of Elijab, I Kings xix.; of the Ninevites, Jonah iii.; and of our Lord himself, Matthew iv.; all of which fasted forty days. This fast begins ou Wednesday, because the six Sundays, being festivals, were not in-

cluded in the fasting days; and, therefore, unless four days were added before the first Sunday in Lent, the fast would only last thirty-six days instead of forty.—(Elementa Liturgica)

Herrick has a quaint instruction :-

No; 'tis a Fast to dole
My sheaf of wheat,
And meat,
Unto the hungry soule.
It is to fast from strife
From old dehate,
And hate;
To circumcise thy life;
To show a heart grief-rent
To stave thy sin,
Not bin,
And that's to keep thy Lent.

Battle of Culloden.—The present year is the centenary of this memorable event, which finally extinguished the hopes of the House of Stuart; it was, indeed, a blood-stained victory:

Drummossie muir, Drummossie muir, A waefu' day it was to me, For there I lost my father dear, My father dear and brethren three.

Midlent.—The Fourth Sunday in Lent was anciently kept by Catholics visiting their mother-church, and making their offerings at the high altar: thence arose the dutiful custom of visiting parents on this day, therefore called Mothering Sunday; when the children were treated with a regale of excellent furmety, or they presented their mother with a sum of money, a trinket, &c. On the following Sunday, preceding Palm Sunday, fried peas, or carlings, are eaten in the North.

St. Patrick's Day.—The shamrock, or trefoil, is worn as the national emblem of Ireland, from St. Patrick having referred to it in illustration of the Trinity, when he landed near Wicklow, to convert the Irish to Christianity in 433. Still, the trefoil is not fully expanded on St. Patrick's Day, and old authors affirm that the shamrock was eaten, and was a sour plant: now, wood-sorrel alone is sour, is an early Spring plant, is abundant in Ireland, is a trefoil, and is called by old herbalists, Shamrog.

With March we may expect "many weathers;" and there is a very old proverb, "March hackham, comes in like a lion, goes out like a lamb."

By the storms of this period, we are reminded of a touching epitaph on two infants buried in the churchyard of Hemel Hempstead, in Hertfordshire:

urchyard of Heiner Heinpstead, in As fades the flower in early Spring, When tempests sweep the land, So droops the tender infant's form, When seized by Death's cold hand, Farewell, sweet habes, the loss is ours, For you are gone to rest, The Shepherd has hut called his lambs, To fold them to his breast.

ı. T

MARCH.

During this month the pheasant crows; the wryneck appears; the crow builds; the golden crowned wren sings—(See January); the blackbird lays; the raven sits; the willow wren appears; the turkey lays; the sand marten, the swallow, and the pied wagtail appear.



Of all the birds which resort to this island for food and shelter, that of the swallow tribe is of all others the most inoffensive and social; all, except one species, attach themselves to our houses, and clear the air of gnats and troublesome insects. The sand marten is the smallest of all our swallows, and the least numerous of them; it frequents the steep sand banks in the neighbourhood of rivers, in the sides of which it makes deep holes and places the nest at the extremity. The length of the bird is less than five inches. The bird's head, neck, breast and beak is of a mouse colour; over each eye there is a light streak; the throat, the forepart of the neck and belly is white, the wings and tail are brown. The pied wagtail is a very common bird; its length is about seven inches, bill black, eyes hazel, hinder rart of the head and neck black; forehead, cheeks, and sides of the neck white; the fore part of the neck and part of the breast are black, bordered by a line of white; the back and rump are of a dark ash colour; lower part of the breast and belly white, legs black. During the years 1843 and 1844, the times of the arrival of many birds were recorded by John Blackwall, Esq., F.L.S., of Llanrwst, Denbighshire, North Wales. (See the reports of the 13th and 14th Meetings of the British Association for the Advancement of Science.)

About the beginning of this month, in wild and nnfrequented places, near rivers, is heard the booming cry of the bittern; of this cry, Buffon says, "Solemn and dreary as in an evening may appear the various notes of the secluded inhabitants of the banks of the unfrequented rivers, whether we consider the loud scream of the wild goose, the croaking of the mallard, the whining of the lapwing, or the tremulous neighing of the jack snipe, there is no tone so dismally hollow as the booming of the bittern. It is impossible for words to give those who have not heard this evening call, an adequate idea of its solemnity. It is like the interrupted bellowing of a bull, but more hollow and louder, and is heard at a mile's distance, as if issued from some formidable being that resided at the bottom of the waters." To this dismal cry, superstition has added her terrors, and among peasants, whenever heard, it is supposed to be the foreteller of evil. Buffon concludes his account of this singular bird, by quoting the following:-"I remember, says a modern author, in the place where I was a boy, with what terror this bird's note affected the whole village; they considered it as the presage of some bad event, and generally found or made one to succeed it. I do not speak ludicrously; but, if any person in the neighbourhood died, they supposed it could not be otherwise, for the night-raven had foretold it; but, if nobody happened to die, the death of a cow, or a sheep, gave completion to the prophecy. Terrible as this cry is to the peasant, it is no other than the love cry to courtship, or connubial felicity; and in this month the neighbourhood of the bird may he discovered by this note, which it has erroneously been supposed to make by thrusting its bill into the cavity of a dry reed, and blowing therein; the noise is however made when it is in an erect position, and seems to be caused by the bird's blowing hard through its bill, which at that time is nearly closed. length of the bittern is about two feet, its height when it stands up is about two feet, and in breadth of the wings when expanded about four feet, and its weight is about three pounds; the length of its bill is about four inches.

The following is the description given by Bewick-(See his British Birds):

"The beak is strong at the base, straight, sharp on the edges, and gradually tapers to an acute poir the upper mandible is brown, the under inclining to green, the mouth is wide, t'e gape extending beyond the eyes, with a dusky patch at each angle; the irides are yellow. The crown of the head is somewhat depressed, and

covered with long black feathers; the throat is yellowish white; the sides of the neck pale rust colour, variegated with black, in spetted, waved, and narrow transverse lines, and on the fore part, the ground colour is whitish, and the feathers, fall down in less broken and darker lengthened stripes. These neck feathers, which it can raise and depress at pleasure, are long and loose, and, inclining backward, cover the neck behind; those below them on the breast, to the thighs, are streaked lengthwise with black, edged with yellowish white; the thighs, belly, and vent are of a dull pale yellow, clouded with dingy brown.

"The plumage on the back and wings is marked with black zigzag lines, bars and streaks, upon a ground shaded with rust colour and yellow. The bastard wings, greater coverts, and quills are brown, barred with black. The tail, which consists only of ten feathers, is very short; the legs are of a pale green, bare a little above the knees; the claws, particularly those on the hind toes, are long and sharp, the middle ones serrated.

"The female is less than the male; her plumage is darker, and the feathers on her head, hreast, and neck are shorter, and the colours not so distinctly marked."

The bittern, though not numerous, is dispersed throughout this country; it is a shy and solitary hird, living at most in pairs, and as soon as the young can leave, they follow the habits of their parents, living alone till they pair and have families. Thus, in whatever point of view we consider them, they are a very singular race of birds. For the want of room we cannot say more about them; but, from their peculiar habits, they are well worthy of a more lengthened account.

> SPRING. Fresh Spring, the herald of love's mighty King, In whose cote armour richly are display'd All sorts of flowres, the which on earth do spring, In goodly colours gloriously array'd.

SPENSER

During this month the following plants will blossom:-The erocus in meadows; sweet violet on hedge banks; narcissus (daffodil), in moist thickets; the mouse-ear chickweed on walls and in rubbish; the sloe tree in hedges; hairy lady's smock in moist pastures; the common coltsfoot in moist places: the daisy in pastures; the common butcher's broom on gravelly heaths; the poplar and the yew tree may be expected to hlossom.

The violet that so sweetly perfumes the morning air of Spring, and is the emblem of Modesty, now beautifully embroiders our banks where the soil is light and where there is partial shade.



The English name of Daisy is derived from a Saxon word, meaning Day's eye, possibly so called, from the nature of its blossom, which expands at the opening of day and closes at sun set.

The little daizee, that at evening closes.

Spenser.

The daisy contributes more than any other flower to infantine amusement, and the joys of childhood, and, hence, it is the emblem of innocence.

— in the Spring and play-time of the year,
That calls the unwonted villager abroad
With all her little ones, a sportive train,
To gather kingcups in the yellow mead,
And pink their hair with daisies.

This little flower was highly thought of by Chaucer, who says-

Of all the flowrea in the mede,
Then love I most these flowres white and rede,
Such that men called Daisies in our town:
To them I have so great affectioun.

The most careless observer of plants must have noticed that the daisy not only closes its petals at night, but that they are also carefully folded over the yellow disk in rainy weather .- (See the beautiful poems on the Daisy, by Wordsworth, Montgomery, and Burns.



15	- 1				81	×		()	Ioon,		(High	Wat	ter at	Lon-	Equati	on L	
1		W	ANNIVERSARIES, OCCURRENCES, AND FESTIVALS.	Ris	es-R.	Decl	ina-	Rises-R.	Sout	he laws		don 1	ridge.		of Tim	e I	Day of le Year
-	-1			Sr	ts-5.	tion I	orth	Sets-S.	\				After		Add.		
	4	337	All D. 1.2 Des. (Di.: : - 1.111 41) 16. 1.77	M. OOD	4	00	н, м.	H.	.	H.	M.	п.	м, 20		4.	0.1
		VV		1	38R	4	30	Morning.	Aftern		5	14	5	32	4	~	91
		$\Gamma_{\rm H}$	which cannot be traced; unless it be a travestic upon All Saints' Day (see Nov. 1). It is appropriated to innocent practical jokes among young	U	$33 \mathrm{s}$	4	53	$ 0 34^{s}$	5	24 6	5	53	6	14			92
	3	F	people, the person deceived being termed in England an April fool, in Scotland a gowk, and in France un poisson d' Acril (an April fish)	5	34 R	5	16	1 18 ^s	6	12 D	6	36	7	1	3 2	4	93
	4	\mathbf{S}	Game Certificates expire	6	37 s	5	39	1 56 s	6	59 8	7	27	7	57	3	6	94
	5	S	PALM SUNDAY Called in the English prayer-book	5	29R	6	2	2 29 s	7	44 9	8	37	9	19	2 4	8	95
	6		the Sunday next hefore Easter; also sometimes called Passion Sunday, as	G	40 s	6	$2\overline{5}$	2 588	8	28 10	10	0	10	38	2 3	- 11	96
		Γυ	heing the commencement of Passion Week, or the week celebrative of the sufferings or passion of our Lord	5	24R	6	48	3 21 s	0	1111	11	13	11	46		- 11	97
1	- 1	w	Mercury sets at 8h. 21m. P.M.	6	43 s	7	10	3 44 s	9	54 19	111	10	0	15	$\tilde{1}$ 5	~ II	98
	a.	_	Maundy Thursday.	5	20 ^R	7	32	4 88	1	$\frac{34}{38} \frac{12}{13}$	0	39	0	57	1 3		99
1	0	Ē"		G	45 s	7		1	110	04 14	1	3.0	Ų	33	1 2	**	00
1		S	GOOD FRIDAY.—This day, as the anniversary of the	10	15R	6	55	1	11	24 14	1	10	0	33	1 4	النا اله	01
1 1			Europe	0		8	17	4 498	Morn	ing.	1	51	4	40	0 ~	- II	$\frac{01}{02}$
		S	EASTER SUNDAY	0	48 s	8	39	Afternoon.	0	11 10	Z	24	2	42	0 5	V	- 1
1	3	M	Easter Monday	0	11 R	9	- 1	9 13	1	-1[17]	3	0	3	18	0 3	* 1	03
1	4	Γυ	Venus rises at 3h. 44m. A.M.	6	$52^{\rm s}$	9	22'	$ 10 \ 20^{R}$	I	53 18	3	34	3	52	0 1	0 -	04
1	5	W	Easter Term begins	5	7 R	9	44	11 23 B	2	48 19	4	10	4	29	Suhtrae	: L .	05
1	6	Γ	Passage of the Khyber Pass by Gen. Pollock, 1842	6	$55^{\rm s}$	10	5	Morning.	3	44 20	4	47	5	7	0 1	2 1	06
1	7	F	Franklin died, 1790, aged 84	5	2^{R}	10	26	0 18R	4	42 21	5	29	5	52	0 2	6 1	07
1	8	S	Mars sets at 11h. 30m. P.M.	6	59^{s}	10	47	1 3 R	5	38 (6	18	6	47	0 4	0 1	08
1	9	5	Low Sunday So termed from the church-service	4	58R	11	8	1 43 R	6	34 23	7	19	7	53	0.5	4 1	09
2		M	heing somewhat abridged or lowered from the proceding Sunday,-Byron died, 1824, aged 37	17	2^{s}	11	29	2 16 R	7	28 24	8	34	9	16	1	7 1	10
12	1	Γu	Spanish Armada destroyed, 1657	4	55^{R}	11	49	2 46 R	8	21 25	9	56	10	35	1 2	0 1	11
12	2	W	Duke of Sussex died 1843, aged 70	7	6 s	12	10	3 13 R	9	13 26	11	13	11	48	1 3	2 1	12
2	3	Тн	St George -St George the natron saint of Eng-	4	51R	12	30	3 39 R	10	4 27			0	14	1 4	4 1	13
$ _{2}$	4	F	land, as St. Patrick, St. David, and St. Andrew, respectively, are of Iroland, Wales, and Scotland	7	10 s		50	4 5 B		$55 \overline{28} $	0	41	1	7	1.5		14
2		s	St. Mark—Princess Alice born, 1843	4	47 R	13	Q		11	47	1	30	1	52	2	7 1	15
12	1		2ND SUNDAY AFTER EASTER	7	13 s	13	20	8 21			1 2	12	2	35	$\frac{1}{2}$ 1	7 1	16
12	7		Stothard died, 1834	14	43R	13	48	9 25	After	32 2	$\frac{1}{2}$	55	3	14	2 2	7 1	17
2	8	Tu	Jupiter sets at 8h. 10m. P.M.	7	168	14	7	10 238		24 3	3	34	3	53	$\frac{2}{2}$ $\frac{2}{3}$	6 1	18
0	9	w	Last war with France commenced, 1803	1	30R	111	26	11 198	3	$\frac{24}{15}$ $\frac{3}{4}$	4	12	4	31	2 4	5 1	19
	-			7	108	14	4.4	11 528	1	4 5	1	10	5	9	2 5	4 1	20
13	V	I H	Mercury rises at 4h. 12m. A.M.	1/	19"	14	44	111 99	4	47 3	1 -4	49	• /	91	4 0	1111	20
1			!: RIGHT ASCEN	S10	NS A	ND	DEC	LINATION	S OF	THE	PLA]	NETS	s.				

			17 -0 -1 -1		- 11	3031
li li		RIGHT ASCEN	SIONS AND DECL	INATIONS OF TH	E PLANETS.	
Times of changes of the Moon, and Days	MERCURY.	vnnus,	MARS.	JUPITER.	SATURN.	URANUe.
when she is at her greatest distance (Apogee,) or at her least distance (Perigee,) from the Earth, in each Lumation.	Right Dechma- tion North.	Right Declina- tion South.	Right Ascension. Declination North.	Right Declina- tion North.	Right Ascension. South	Right Declination North
First Quarter 3d. 5h. 12m. P.M. 1	1h. 48m. 14° 6	22h, 23m, 5° 20'	4h, 8m, 22° 6'	2h. 46m. 15° 7'	21h. 59m. 13° 37'	Oh. 39m. 3° 28
Full Moon 11 5 35 _ 6	1 58 15 29	22 31 5 30	4 23 22 41	2 50 15 27		0 40 3 35
Third Quarter 18 8 24 , 11	1 59 15 23	122 48 5 21	4 36 23 12	2 54 15 47	22 2 13 19	0 41 3 42
New Moon 25 4 48 , 16	1 52 13 54	22 55 4 55	4 50 23 38	2 59 16 7	22 4 13 11	0 42 3 4R
Apogee 5 1 , 21	1 49 11 33	23 10 4 12	5 4 24 0	3 3 16 27		0 43 3 55
Perigee 20 11 , 36	1 31 9 8	25 26 3 15	5 18 24 17	3 8 16 47	22 7 112 57	0 44 4 1

Norg.—Where a blank occurs, in the column under high water, it shows that there is only one time of high water on that day. - Thus, on April \$th, there is only one high tide: it occurs at 15 minutes after moon: and the next high water is at 29 minutes after midnight, or on the morning of the 9th day.

16

APRIL.

On the 25th. day an Eclipse of the Sun, visible in England, takes place, and as no phenomenon usually excites more interest and curiosity, we shall ondeavour to explain its cause and give its appearance: it is the only one visible in England this year. The Sun, the Moon, and the Earth, being three solid bodies, whenever they are in the same straight line, an obscuration of either of the first two from the third, or an Eclipse, will take place, in consequence of the interposition of one of these solid bodies between the other two.

When the Moon is between the Sun and the Earth, which can only occur when she is new, an Eclipse of the Sun takes place; and when the Earth is between the Sun and the Moon, which can only take place when the Moon is full and opposite to the Sun, an Eclipse of the Moon takes place. The average number of Eclipses in one year, is about four; there cannot be less than two, nor more than seven, of which five will be of the Sun, and two of the Moon; and when there are only two they will both be of the Sun. Dnring the year 1846 there will be only two, and of course both of the Sun.

The Moon, in consequence of her variable distance from the Earth, appears to us sometimes precisely the same size as the Sun; and if this be the case at the time of an Eclipse, such Eclipse would be total; sometimes the Moon being farther from us, appears to be smaller than the Sun; and if an Eclipse takes place at this time, the whole of the Sun would be hidden except a bright luminous ring around it: and the Eclipse would be annular; in other cases, however, which are by far the most numerous, the Sun will be only partially eclipsed. We shall now endeavour to make this more elear by an Illustration.



Let a b be considered to be the Sun: the distance from a to b is

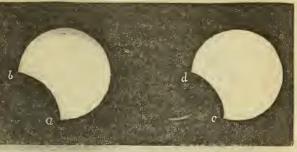
• d				Earth:		about 883,000 miles.
• ••	• • •		•••	Earth.	• •	· · c to d is
						about 7,900 miles.
8 f		••		Moon:		
- 2				macon .	••	·· e to f is
						about 2.160 miles

The distance that the Sun is from the Earth is about 95,000,000 of miles.

The distance that the Moon is frem the Earth is about 240,000 miles.

If lines be drawn from the extreme portions of the Sun, as at a and b, just tonching the extreme portions of the Moon at e and f, and continued till they meet the Earth at g and h, and if other lines were drawn for every other part of the Sun between a and b, just touching the Moon, and continued to the Earth, then the termination of these lines would inclose a portion of the Earth's surface. Now without this space no part of the Sun light is cut off, and no Eclipse takes place, but within it at every part a portion of the Snn light, more or less, is cut off. This portion would be found by drawing lines from any place just touching the ontside of the Moon, and continued to the Sun: those parts of the Sun which would be included within these lines, would of course be hidden, and from those parts of the Snn which were not hidden by the Moon, Sun light would come, and a partial Eclipse would take place. If the observer be situated in the same straight line joining the centres of the Sun and Moon, then either an annular or a total Eclipse would take place, depending on the circumstances before referred to. The Eclipse of the 25th. of this month is annular on the Equator in the N. Pacific Ocean, the West Indies, the Atlantic Ocean, and a part of Africa. In Europe

it is only partial, and the amount of it is represented in the following engraving, at the time of the greatest obscuration at Greenwich and at Dublin. It is evident that the being able to foretell an Eclipse, must depend on a good knowledge of the relative size, distance, and the motions of the bodies eclipsed, and the agreement in this respect of the predictions and observations of such phenomena, proves that the theory upon which such predictions are calculated must be near the truth.



The Eclipso commences at a at 5h. 32m. P.M. at Greenwich; it is at its greatest obscuration at 6h. 14m. P.M, and ends at b at 6h. 54m. P.M.

At Dublin it commences at 5h. 29m.; its greatest obscuration is at 6h. 112m, and it ends at 6h, 52m Greenwich time, or at 5h, 4m., 5h, 46m., and 6h, 27m., Dublin time respectively.

At Edinburgh the Eclipse is very nearly the same as at Greenwich, and commences at 5h. 32m.; its greatest obscuration at 6h. 8m., aud ends at 6h. 43m. Greenwich time, or at 5h. 19m., 5h. 56m., and 6h. 31m. Edinburgh time respectively,

In observing the Eelipse, dark glasses should be used to defend the eye from the intensity of the Sun light. Should any of our readers not be provided with a coloured or smoked glass at the time the Eclipse takes place, they may observe the image in water, placed in a situation that the water is not agitated by the wind. But it will be better to be provided with a piece of smoked glass, which may be done as follows: - Common glass used for windows will do; first wipe it dry and warm it by the fire, or it may crack when applied to the blaze of a candle: then draw it gently through the flame, and repeat the same operation, only leaving a small portion at one end untouched, and darken the other end the most, and then gradually less and less towards the untouched end. The tinge at one end should be the slightest possible, and at the other so dark that you cannot see the flame of the candle through it. Then a darker or lighter part of this glass can be brought before the eye, according as the brightness of the Sun may need it.

On April 1d. Venns can be found as follows:-An imaginary line from a Andromedæ through a Pegasi (two of the stars in the trapezium of Pegasus) and continued 20 degress beyond the latter star leads a little to the right of the planet. On the 16th day an imaginary line from β Pegasi through α Pegasi, and continued onwards leads to Venus at the distance of 18 degrees from a Pegasi. On the last day of the month a line from α Andromedæ through α Pegasi passes about 4 degrees to the left of the planet.

On April 1d. Mars will be 6 degrees North of Aldebaran, and Mars, Aldebaran and the Pleiades form a neat triangle. During the month Mars will be moving towards Castor and Pollux. At the end of the month a line from the Pole star to a Orionis passes Mars at the distance of 18 degrees North of a Orionis.

ASTRONOMICAL OCCURRENCES IN APRIL.

			PLAN	Occultat	rion of Stars by ti	HE MOON.		
	Name		Time of passing the Meridian or Southing, on the 15th. day	When near the Moon	Angular Distance from the Moon North or South	Name of the Stars.	Times of disappearance and re-appearance.	At the dark or bright limb of the Moon.
Mercury			н. м. 0 20 р.м.	р. н.	DEG.	λ Geminorum . }	D. H. M. 3 11 51 P.M.	Dark
Venus	4	•	9 20 А.м.	22 9	3 South	3	4 0 49 ,,	Bright
Mars	:	•	3 14 р.м.	29 7	5 North	A ² Caneri . 3	5 7 0 P.M. 5 8 4	Dark
Jupiter.	٠		1 25 р.м.	26 6	å North	. 3	5 8 4 ,,	Bright.
Saturn	•		6 31 A.M.	21 ЗА.М.	6 Sonth	28 Virginis . }	10 7 37 р.м.	Dark
Urancus	•		11 9 а.м.	24 2 а.м.	3 South	3	10 8 14 "	Bright

April 7th, 9h. 30m. r.m., Venus at greatest brilliancy.—(See May.)
April 19th, 9h. 16m. A.M., Mercury in inferior conjunction with the Sun.—(See September.)
April 12th, 7h. 49m. Jupiter's 2nd. Satellite Eclipsed, re-appearing on his W. side at the distance of one-third of his diameter from him. The Satellites are not visible after the 18th. of this month, Jupiter being too near to the Sun.

April 25th, Sun Eclipsed.—(See above).



LET LOOSE FROM SCHOOL .- BIRDS' NESTING .- GAMESOF ACTIVITY AND STRENGTH.

APRIL is usually considered to have been named from Aperire, to open; either from the opening of the buds, or of the bosom of the Earth, in producing vegetation. The Saxons called it Oster, or Easter Monath, in which month the feast of the Saxon goddess Eastre, Eoster, or Easter, is said to have been eelebrated.

Paim Sunday is named from the boughs of Palms being carried in procession in imitation of those which the Jews strewed in the way of Christ, when he went up to Jerusalem. The Palm-tree was common in Judea, and planted everywhere by the way-side. Sprigs of box-wood are still used as a substitute for Palms in Catholic countries; and willow, laurel, yew, and box, for the decoration, or dressing, of churches in England. The blossoms of the willow, too, are called Palm, because of their coming forth before any leaves appear, and flourishing most before Easter, wherefore they are gathered to deck houses on Sundays. The ceremony of bearing Palms in England was retained till the 2nd year of the reign of Edward VI.; and it was formerly a proverbial saying, "He who hath not a Palm in his hand on Palm Sunday must have bis hand cut off." The custom still lingers in some rural districts, though not as a religious observance.

In the Catholic ehnreh, Palm Sunday is the first day of the *Holy Week*; and at Rome, Palms are blessed by the Pope, who is borne in grand procession round the Sala Regia of the Vatican; where the Tenebræ and Miserere are sung by the Pope's choir, as well as at St. Peter's.

The Great or Passion Week was kept by the early Christians, as a season of rigorous abstinence from whatever could delight the body, that the soul might more readily accompany the Saviour in his sufferings, and realize "the great, the unspeakable blessings procured in it for man." For, in this week, to sum up the teaching of the Church in the eloquent language of Cbrysostom, "the long war was brought to a close, death was quenched, the curse removed, the tyrannous empire of the devil overthrown; his goods plundered, God and man reconciled; heaven became accessible, men and angels were joined together; what had been dissevered was united; the partition wall broken down, the barrier taken away; the God of peace made peace between the things above and the things on earth." The services of the church followed throughout the course of this week, the actions or sufferings of the Saviour. Thus, on the Holy Thursday, the sacrament was received in the evening after supper, because that was the time of its original institution .- (Feasts and Fasts). This was ealled also Dies Mandati, i. e. the command of Christ to bis disciples when he washed their feet, to follow his example; whence comes Maundy Thursday; on this day, the Pope washes the feet of Poor priests at Rome, as the Kings of England, or their Almoners, formerly washed the feet of as many poor men as the soverign was old, at Whitehall. Alms, or maund, were then distributed; and this part of the custom is retained to our day; for which purpose, certain coins are struck by the Royal Mint every year and termed Maundy Money.

Good Friday, as the day on which the Lord gave himself up for us, was the appointed time for the absolution of those who had been subjected to penance for their sins. The Fast of Friday was prolonged, by all who were able to bear it, over the succeeding Saturday, while Christ remained in the tomb till cock-crow on the Easter morning; and during the whole of that night the people continued assembled in the churches, in the expectation—an expectation apparently derived from the Jews—that on that night the Messiah would appear to receive his kingdom; of which event, as is well known, the Christians from the earliest times, confidently expected the speedy happening. Thus was the period preceding Easter kept in the fourth century.—(Feasts and Fasts.) And, "as Good Friday is so called from the blessed effects of our Saviour's Passion, so the day of his Resurrection is named Easter, from the Saxon Oster, to rase."—(Elementa Liturgica.)

Of the present observances of Easter we can give but a few notes. At Rome, the ceremonies are continued on Friday and Saturday, and terminate on Sunday with the Pope blessing the people from the Portico of St. Peter's; illuminations, fireworks, &c. In England, the Good Friday Bun is eaten, derived from the sacred Boun, which was offered at the Arkite Temples; marked with the cross in commemoration of the passion of Christ on this day. The dressing of churches with flowers and evergreens on Easter Day is but little kept up. The Easter Holidays are but slightly observed; though our ancestors had their water quintain, ball-play, heaving or lifting, barley-break, stool-ball, &c.; and the good King Alfred appointed the week after Easter to be kept holy. On "God's Sondaye," (Easter Day,) the ancient hall fire was discontinued, the "black wynter broudes" put aside, and the hearth "gayly arrayed with fayre flowres, and strewed with green ryles all about."—(A.D. 1511.)

St. George was a brave soldier, in the ranks of Dioclotian. I dward III. at the battle of Calats, in the year 1349, joined to England's guardiat St. Edward the Confessor, the name of St. George; and invoked both to his arms: next year, the order of the Garter was established, dedicated to St. George, whose emblem is preserved in its rich jewel.

St. Mark is depicted with a lion conchant, winged, by his side; because the lion is emblematical of the nervous solidity of his writings; and the wings of the more than human powers displayed in their composition.

On the 25th of April is the Jewish Festival of the Passover, or Pasebal 1 amb. The Paschal flower usually flowers at this period, in chalky pastures.

April is the season for healthy out-door sports: the hoop may be seen in classic sculpture; and leap-frog is mentioned by Shakspeare and Ben Jonson.

An old poet has thus versified the weather characteristic of the month:

May never was the month of love, For May is full of flowers; But rather April wet by kind; For Love is full of showers.

APRIL.

This month is the most remarkable in the year for the arrival of migratory birds; amongst them may be expected the yellow wren, the common sandpiper, the redstart, the enckoo, the lesser pettychaps, the black cap, the whitethroat, the whinchat, the nightingale, the pled flycatcher, the swiit, the middle yellow wren, the willow wren, the fern owl, or goatsucker, &c. The Snipe pipes, the Titlark sings, and the Turtle coos.



THE GOATSUCKER.

The Yellow Wren is about five inches in length; bill brown, inside and edges yellow; eyes hazel; upper parts of its plumage yellow; inclining to a pale olive green; under pale yellow; over each eye there is a whitish streak; the wings and tail are of a dusky brown, with pale edges; legs yellowish brown. This species is rather scarce.

The Common Sandpiper is about seven and-a-half inches in length; the bill is about an inch long, black at the tip, fading into pale brown towards the base. The head and hinder part of the neck are brownish ash, streaked downwards with dark narrow lines; the throat, the fore part of the neck and the belly are principally white. The principal colour of the upper parts of the plumage is ash, blended with glossy olive brown. The Redstart is six inches in length; is but little more than half an ounce in weight; bill short; eyes hazel; legs and claws slender.

The cry of the male Cuckoo is well known, and is generally heard about the middle of this month; it ceases the latter end of June. The bird is fifteen inches in length, twenty five in breadth, and it weighs about four ounces-and-a-half; its bill is black, and somewhat bent; irides and eyelids yellow; the taul consists of ten feathers of unequal length. The female differs in colour, being more inclined to brown, and is nearly an inch shorter than the male.

The Fanvette or Pettichaps,—length about six inches; bill blackish; eyes dark hazel; upper part of the body dark brown; throat and belly of a silvery white. This bird frequents thickets, and imitates the notes of other birds. The Lesser Pettychaps,—length six inches; bill pale brown; upper part of the body brown; this bird is also a mocker. The Black Cap is about five inches in length; the top of its head is black; sides of the head and back of the neck ash colour; beak and wings of an olive grey; the throat and breast of a silvery grey; belly white; legs blue

The White Throat is about five inches and a half; bill dark brown, lighter at the base; the upper part of the head and beak are of a reddish ash colour; throat white; breast and belly silvery white; the wings and tail are dusky brown. The breast and belly of the female are entirely white.

The Whinchat is in length about five inches; bill black; the feathers on the head, neck and back, black; a streak of white passes from the bill over each eye, towards the hinder part of the head, which is white.

The Nightingale is six inches in length; bill brown; the whole of the npper part of the body is brown: the under parts pale ash colour. The female is very similar; this bird is, therefore, not remarkable for the richness of its colours though deservedly so for the excellence of its song.

The Picd Flycatcher, length nearly five inches, breadth about nine; bill black; eyes hazel; forchead white; top of the head, the back, the tail and legs are black; all the under parts from the bill to the tail are white; the female is rather less, and has the colours more blended, the white parts approaching to dusky and the black not so deep a hne, and also wants the white on the forchead, so conspicuous in the male; both sexes vary in their markings, as is frequently the case with pied birds.

The Swift is nearly eight inches in length; the wings measure from tip to tip, eighteen inches; its general colour is sooty black. It arrives later, and departs sooner than any other of the swallow tribe.

The Goatsucker, which we have engraved above, has several names in different parts of the country, as the night-hawk; forn-owl; churn-owl; goat-owl; wheel-bird; night-jar; night-swallow, &c.

This bird is the only night-bird which preys upon insects on the wing; it has a great number of names, a few of which we have mentioned. The engraving will give some idea of its form and markings. Its length is about ten and a half inches; its breadth about cighteen; weight about three ounces; bill small, flat, weak, and somewhat hooked at the tip; mouth large; eyes large full and black; legs slender, short, feathered below the knees. The plumage is freckled with browns of varions hues, mixed with rust colour and white. The male is distinguished by an oval white spot on the two outside tail feathers.

This bird is very much in the habit of resorting to cool places, where cattle stand when annoyed hy files; and it stood accused at a very early age of sucking goats, which has no foundation but in ignorance; the hill being quite unfit for any kind of suction, and, instead of doing any harm to animals in such situations, it does them a great deal of good hy ridding them of files which annoy them.

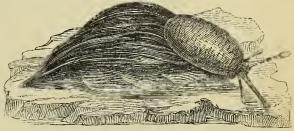
Much activity during this month pervades the insect world; and, every day fresh ones are seen. Of these, the following may be expected:—the stinging fly; red ants; common black fly; lady bird; black snail; shell snails, in numbers; large bat; several kinds of files; cabbage butterfly, &c.

The mouth of the goatsucker, including the bill, is very curious. Its gape is wider than that of any other birds of these islands. During the day it resorts to low woods and coppices, where it remains till the dusk of the evening, when it goes in search of food, which consists of beetles, moths, cockchaffers, &c.

The Slug is characterised by having an oblong body, furnished above with a fleshy shield, and beneath with a flattened expansion, answering the purpose of a foot or locomotive organ. On the right side of the breast is a large orifice; and on the front of the head are four feclers or tentacula, or, as they are popularly termed, horns.

The most familiar example of this genus is the common black slug, generally called the black snall, so frequently seen in fields and gardens in damp weather. They are produced from whitish gelatinous eggs, deposited in shady situations, beneath the surface of the ground.

This animal is so well known that a more minute description of it would at first appear not needed; but, as it is one of those unfortuate animals whose appearance inspires mankind with disgust, and renders it an object of persecution, as such, we fear but few of our readers would be tempted to examine it, or to think it worthy of attracting any portion of their admiration. We shall, therefore, he more particular in its structure than we otherwise should, in the hopes of awakening some feelings of compassion towards it.



BLACK SLUG.

The body is, as before remarked, oblong; it crawls on its belly; progressing in its motion by means of internal muscles, so arranged as to give a fixed reliance on each in succession, as the advance forward is made. In certain situations where the ground is ill adapted to the animal's locomotion, a slimy juice is expelled from its body to smooth the path, or give it an additional hold. The skin s thick. It has four tentacula, capable of considerable extension; the larger or hinder pair are furnished with eyes at their summits; these, as well as the other pair, act as feelers to assist in avoiding danger, and it is said that if these be dcstroyed they will again form. In almost all particulars, except in not being furnished with a shell, they resemble the common garden-snail. This animal is so constantly under our convenient observation, that we need not describe it; this little creature, which we so cruelly crush beneath our feet, considering it as a common enemy, would well repay witnessing its interesting operations, and particularly to those who are studying conchology; here they can trace the various changes that take place, from the slight viscous covering with which the animal's body is first coated or merely glazed, till that substance becomes a firm shell adapted to the form and use of its inhabitant. And in what other animal can he watch the formation of the shell so easily? In the open fields these creatures perform useful purposes in conformity to the ends of their creation, hy consuming the exuberant productions of nature, which, without its operation, would encumber the surface of the ground, and check the progress o future vegetation, &c. All these animals feed entirely on vegetables. We would be speak some compassion towards these much persecuted creatures; but need we say more, than that, where great reproductive powers, or a strong tenacity of life, exist in any class of the Almighty's creatures, great ends are to be worked by their agency, however hnmble their powers may appear to man. And a conviction of this will be forced npon any one who will condescend to examine the good services these despised creatures render mankind.



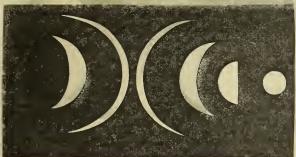
			=										***					
M	W	ANNIVEDCADIES OCCUPATIONS AND RESTRATE	D:	ses-R.		line.	Rine	8-R.	OON.	. 1			wate lon B		Lon-		inie.	Day of
1 -	D	ANNIVERSARIES, OCCURRENCES, AND FESTIVALS.			tion I			s-S.	Sou	ths.	Age	Mor	ung	After	noon		ract.	the Year
1 .			н.	М.	0		H.	M.	н.	M.	D.	к.	M.	н.	M.	H.	ж.	
	F	St. Philip & St. James—Philip was born at Beth-	4	35 ^R	15	- 3	Mon	ming.	After	noon	6	5	27	5	47	3	2	121
2	S	saida. James the less, called also James the Just, was the son of Joseph, the carpenter, hy a former wife, prior to his espousal with the Virgin Mary	7	23 s	15	21	0	28^{s}	5	38	7	6	9	6	32	3	9	122
3	S	3RD SUNDAY AFTER EASTER	4	31R	15	39	0	57 S	6	22	D	6	55	7	21	3	16	123
4	3.5	Jupiter sets at 8h. 3m. P.M.	7	26s		56	1	24 S	7	5	9	7	52	8	27	3	22	124
5	Tu	St. John—Called the Evangelist from bringing	A	28R	16	13	ī	46 s	7	48	10	9	4	9	40	3	28	125
1 6	W	glad tidings. St. John lived to the age of ninety, and died in the reign of	7	29 s	16	30	9	9 s	8	32	11	10	15	10	48	3	33	126
1	T	Trajan—Hamhurgh nearly destroyed by Fire, 3,000 houses hurnt, 1842	ľ.		10	47	0	21 S		!	10	11	- 1	11				
1 /	LH	Earthquake in St. Domingo, 1842, 10,000 lives lost	4	24 R	10	4/	2	01	9	16	12	11	18	11	48	3	38	127
8	1	Accident on Paris and Versailles Railway, 1842	7	32 s	17	4	2	54 s	10	3	13			0	12	3	42	128
9	S	Battle of Lodi, 1796	4	21 R	17	20	3	$21 \mathrm{s}$	10	52	$14 \parallel$	0	34	0	55	3	46	129
10	S	4TH SUNDAY AFTER EASTER	7	35 s	17	36	3	51 s	11	44	15	1	14	1	35	3	49	130
11	M	Mars sets at 11h. 8m. P.M.	4	17R	17	51	4	23^{S}	Mort	ning.	Oll	1	55	2	13	3	51	131
112	$2 \mathbf{T}_{\mathbf{U}}$	Grand Fancy Ball given by Queen Victoria, 1842	7	38 s	18	6	After	moon.	0	39	17	2	34	2	53	3	53	132
13	W	Old May Day—Henri Quatre Assassinated, 1610	4	14R	18	21	10	13 ^R	1	36	18	3	11	3	32	3	54	133
14	Тн	The "ILLUSTRATED LONDON NEWS" first pub-	7	41 s	18	36	11	2^{R}	2	}	19	3	52	4	13	3	55	134
15	1	lished, 1842-In a lecture on architecture, delivered at Livernool, hy Mr. G.	1	11R	18	51	11	45 R	3		20	4	34	4	57	3	55	135
1 - 0	9	Godwin, F.R.S., he remarked, that little was known of the private dwellings of	1/2	44 S		01	11	40	1	- 1	21		22					
10		rather "Athenian News," would be exceedingly valuable	/	-1-1	19	10	Mo	rning.	4			5		5	45	3	55	136
11/	S	ROGATION SUNDAY—The fifth Sunday after	4	8 R	13	18	U	21"	5		22	6	14	6	44	3	54	137
18	\mathbf{M}	Easter-day; and the Sunday hefore Holy Thursday, or the Ascension of Jesus Christ	7	47 s	19	31	0	51 h	6			7	14	7	47	3	52	138
19)[T u			5^{R}	19	45	1	18 ^R	7	8	24	8	23	9	1	3	50	139
20)[W	London, and Canterhury; and what was, perhaps, very valuable in his day, an excellent blacksmith	7	49 s	19	58	1	41 R	7	59	25	9	36	10	9	3	47	140
21	$ T_{\rm H} $	Ascension Day-Holy Thursday-The Thursday	4	3 R	20	10	2	8^{R}	8	49	26	10	45	11	18	3	44	141
22	F	in Rogation week; heing the day on which our Saviour's ascension is com- memorated. At the Reformation processions on this day were abolished	7	52 s	20	22	2	36R	9	40	27	11	46		ŀ	3	40	142
23	$ \mathbf{S} $	Francis shot at Queen Victoria, 1842	4	OR	20	34	3	8 R	10	31	28	0	16	0	42	3	35	143
24		SUN. AFT. ASCENSION—Birth of Queen Victoria	7			45	3	41 R	11	22	29	1	6	1	33	3	30	144
2	M	Mercury rises at 3h. 18m. A.M.	2		$\frac{20}{20}$	56	1	14 R				î	55	$\frac{1}{2}$	17	3	25	145
0,6	T		7		01	7	1	17	After			2	36	$\frac{2}{2}$	57	3	19	
0,4	1 1 0	St. Augustin—Commissioned by Pope Gregory to	0	90	21	17	Afte	moon.	1	5	2		17		- }	1		146
2/	VV	died, 010	3		21	17	19	498	1	56	4	3	1/	3	35	3	12	147
28		1. 1	8	0 s	21	27	10	28 s	2	45	3	3	53	4	10	3	5	148
29	1	Restoration of King Charles II.	3	54^{R}	21	36	10	59 s	3	31	4	4	29	4	48	2	58	149
30	S	Pitt born, 1759—Popc died, 1744	8	2 s	21	46	11	$26^{\rm s}$	4	17	5	5	5	5	24	2	50	150
3	S	PENTECOST, OR WHIT SUNDAY	3	52^{R}	21	54	11	50 s	5	0	6	5	44	6	5	2	42	151
-		RIGHT ASCENSI	ON	S AN	ID I	DEC	LINA	TIONS	. OI	P TI	ΙE	PLA	NET	S.				

Times of changes of the Moon, and when she is at her greatest distance (Apogee), or at her least distance (Perigee) from the Earth, in each Lunation.

Days

of the Moon, and by the Moon, and the Moo ASCENSIONS AND DECLINATIONS PLANETS. MERCUNY. VENUS. JUPITER. SATURN Declina-tion North. Declina-tion North. Right Ascension. Right Ascension First Quarter 3d. 11h. 52m. A.M.
Full Moon 11 6 6 , ,
Third Quarter 18 1 27 P.M.
New Moon 25 4 44 A.M.
Apogee 3 8 ,
Perigee 2 15 7 ,,
Apogee 3 13 3 ,, 7° 6 7 8 10 27m. 31 40 55 15 6's 5h. 46 s 5 42 n 6 18 n 6 59 n 6 12°
12
12
12
12
12
12
12 24° 24 24 24 24 24 3h. 3 3 3 6' 22h. 25 22 44 22 2 22 19 22 8m. 9 10 11 12 51' 0h. 45 0 41 0 37 0 34 0 lh. 42m. 0 18 36 55 32m. 46 0 14 28 13m. 18 22 27 32 45m. 46 47 48 49 1 6 11 16 21 25' 43 2 14 8 23h. 29⁷ 37 40 38 31 2° 0 0 2 3 13 19 24 29 1 1 2 0 0 0 0 17 17 18 18 2 26 40 12 33 5 44N 6 42 24 20 37 18 36 22 13 32 0 49

THE planet Venus always appears in that quarter of the Heavens which the Sun has just deserted, or where he is ju. about to appear; she is, nevertheless, one of the brightest and the most beant 'ul of all the objects in the Heavens-indeed, she ranks next in splendour to the soon herself. A slight attention to her position relatively to the fixed Stars, continued for a few days, suffices to show that she changes her place with considerable rapidity. If we observe her in the evening we shall soon find that her greatest angular distance from the Sun, or her elongation, never exceeds 47deg., being at this time from 3 to 4 hours visible in the evening after him, and in this case she is called the Evening Star; the time which she continues above the horizon after snn-set gradually diminishes, till at last she sets at the same time as the Sun. A few days after this time she will rise a little before the Sun in the East, and is called the Morning Star; at first by only a few minutes, but every succeeding morning somewhat earlier, till her angular distance from the Sun is about 46°, and at this time she rises from 3 to 4 hours before the Sun. This distance then becomes less till she appears so near tho Sun as to be again lost in his rays. A few days after this she again re-appears as an evening Star, so that in no case can the Planct be seen at midnight. When she is E. of the Sun, after having been for some time visible in the evening, she begins to approach the Sun, and she appears through the telescope as a fine Inminous crescent, the horns of which are turned towards the East, and which becomes narrower, and longer, as her angular distance from the Sun diminishes; at the time that she and the Sun are in, above, or below, the imaginary straight line joining the Sun and the Earth, or at about the time they set together, she is at her inferior conjunction with the Sun, and her apparent diameter is the largest; when she rises a little before the Sun the horns of her crescent are turned towards the West; she then exhibits successively Moon-like phases, passing to the half-circle, and to that form, greater than a half-circle, called gibbous; when about to present a small full orb, she is lost in the Sun's rays. These different appearances are represented in the accompanying engraving:



The first appearance on the left hand is that at the time of her greatest brilliancy on January 26th; the next is that a few days before March 2d, at which time she is in inferior conjunction with the Sun, and invisible to us as we are looking at her un-illuminated side, and the third position is that a few days after March 2; on April 7th she has the appearance represented at the fourth from the left hand, being exactly the same as that at the first position, except that the horns are turned the contrary way, and she is a second time at her greatest brilliancy. On the 11th day of the present month she will have the appearance as represented at the extreme right position but one, being then at her greatest angular distance from the Sun West; and, on December 13th, she will be a full round small orb as represented at the extreme right. At every intermediate time between these times she will be of an intermediate form. The several appearances above are laid down on the same scale. During these changes it is evident that there are remarkable alterations of the Planet's diameter and brilliancy, and it is plain that she is not at her greatest brilliancy when most of her illuminated disc is seen; in fact her brightness, as seen from the Earth, depends on two causes; first upon her distance from the Earth; and secondly upon the greater or less magnitude of that portion of her enlightened hemisphere which is turned towards the Earth. These causes tend to ronder her brightest twice in each revolution, at times, when her elongation is about 40°, and at these times she is visible to the naked eye at broad daylight, and when the Sun is below tho horizon, she occasions a sensible shadow. At her greatest elongation, she appears stationary with respect to the Sun for some time, and at certain other times she appears stationary with respect to the fixed stars. The times at which these several phenomena occur, are mentioned under the head of the Astronomical occurrences in each month.

It is stated that spots have at times been seen on the Planet's face, and such were seen at Rome, in 1840 and 1841, by Francesco de Vico, Director of the Observatory at Rome, and from observations on them he deduced the time of rotation on her axis to be 23h. 21m. 22s. When Venus is in the straight line joining the centre of the Sun and the Earth, she is seen to pass over the Sun; and such a phenomenon can be seen from many parts of the Earth, depending on the distance that Venus is from the Earth and from the Sun, and it serves to determine these distances, and upon this our knowledge of the distances of the whole solar system depends. It is unfortunate that so useful a phenomenon should occur so seldom. The last was in 1769, from which the distance of the Sun from the Earth was satisfactorily obtained. There will not be another till 1874, and which will not be visible in England; there will be one which will be visible in England, in 1882,* on December 8, and the next will be in 2004.

The planets are all solid spherical bodies, therefore that hemisphere, or half only, which is turned towards the Sun, can be illuminated at one time; and only one hemisphere can be turned towards the Earth at one time, and therefore scen from the Earth.

If the half on which we look, eoincided always with the half illuminated by the Sun, it is plain that the whole illuminated hemisphere would be seen, and if it does not, then it is equally plain only a part of it would be visible at such times; the latter is evidently the case with Venus, as indeed it is with every planet, but there is a marked difference in their appearances, depending on their distances from the Sun, being greater or less than that of the Earth from the Sun.

Those Planets whose distance from the Sun is greater than that of the Earth, are called Superior Planets, and those whose distance is less, are called Inferior Planets; the orbits of the former, or the lines described by their revolution round the Sun, are all greater, and the orbits of the latter are all less than the orbit of the Earth; and consequently, in the case of the Superior Planets, the greater portion of their enlightened sides will be always turned towards us; and in the case of the Inferior Planets sometimes the whole of their unenlightened discs, and sometimes the whole of their enlightened hemispheres are turned towards us—their discs passing in the intermediate period through all those varieties of appearance represented above. Hence the orbit of Venus, from this cause, and also from the circumstance of the Planet being seen at times to pass across the Sun's disc, must be within that of the Earth, and, therefore, her distance from the Sun must be less than the Earth's distance from the Sun; in fact, her distance is about sixtyeight millions of miles, whilst that of the Earth is ninety-five millions of miles.

Venus shines with a brilliant white colour, and in some situations it is so powerful as to cause a sensible shadow. Her diameter is about 7700 miles. The Sun, as viewed from Venus, must appear nearly twice as large as he does to us, and, therefore, the proportion of light and heat which she receives from the Sun, is nearly double that received on the Earth.

At the beginning of the month, Mercury is exactly midway between γ Pegasi and a Ceti; and at this time the Planet moves slowly. On the 15th day he is about 13 degrees South of a Arietis, and at the end of the month he is between a Ceti and the Pleiades, at about 8 degrees from the latter, and he now rapidly changes his place.

Venus will be readily distinguished by her exceeding brightness; on the first day she rises in the E. at 3h. 7m. A.M., and on the last day she rises in the E.N.E. at 2h. 16m. ▲ M.

• It was inadvertently stated in the Almanack of last year, that there would not be one between 1874 and 2004.

ASTRONOMICAL OCCURRENCES IN MAY.

		PLANET	OCCULTATION OF STARS BY THE MOON.							
	Names	Time of passing the Meridian or Southing, on the 15th day	When near the Moon	Angular Distance from the Moon, North or South	Names of the Stars		Times of disappearance and re-appearance of the Star	At the dark or bright limb of the Moon		
Mercury		 н. м. 10 20 а.м.	D. H.	DEG.	C Sextantes	}	D. H. M. 4 9 41 P.M. 4 10 53	Dark Bright		
Venus		 9 1 д.м.	21 2	4 Sonth						
Mars		 2 40 р.м.	28 5 A.M	6 North	58 Virginis	3	8 10 33 PM. 8 11 7	Dark Bright		
Jupiter		 11 55 A.M.	24 2 P.M.	1 North		١	011 1 11	Jingut ,		
Satnrn		 6 41 A.M.			β¹ Scorpii	3	12 0 24 A.M. 12 1 18 "	Bright Dark		
Uranus		 9 17 A M.	21 11 A.M.	3 South		3	12 1 10 99	Dark		

May 5th, 7 a.m., Mercury the farthest from the Sun.
May 11th, 4 p.m., Venns' elongation the greatest W. 46 deg.—(See above.)
May 17th, 1 a.m., Mercury at the greatest W. elongation, being 25 deg. W.—(See September.)
Jupiter's Satellites are not visible during this month, Jupiter being too near to the Snn.



THE YOUNG MAN ABROAD-TO "OBSERVE THE RIGHTS OF MAY."

May is, throughout, a month of out-door rejoicing; and, as its festivities are inspired by the gay face of Nature, they are as old as any we have on record. Mr. Borlase says: "May customs are nothing more than a gratulation of the Spring, to testify universal joy at the revival of vegetation." And, Mr. Douce remarks: "there can be no doubt that the Queen of May is the legitimate representative of the Goddess Flora, in the Roman festival." In Scotland, on May-day, is held a rural sacrifice called the Baltein, or Fire of Baal—the only word in Gaelic for a globe; this festival being, probably, in honour of the return of the Sun, in his apparent annual course:—

All hall to thee, thou first of May, Sacred to wonted sport and play, To wine and jest, and dance, and song, And mirth that lasts the whole day long.

In the days of "Merry England," all ranks of people—royal and noble, as well as the vulgar—went out Maying, i.e. gathering May, on the first of May: who does not remember Herrick's lyric "To Corinna, to go a Maying." The universality of the custom—the multitudes roaming in the fields on May morning, and the towns and villages subsequently bedecked with evergreens, are thus told:—

Come, my Corinna, come; and, coming, mark
How each field turns a street, each street a park,
Made green, and trium'd with trees; see how
Devotion gives each house a bouch,
Or branch; each porte, each door, ere this,
An ark, a tabernæcle is,
Made up of whitetborn neally interwove;
As if here were those cooler shades of love.

Our artist has picturesquely illustrated the "rites of May"—where the youthful swain is adorning the brow of his fair companion with a garland of flowers, and is about to lead her forth to the sports of the Morris-dance and May-pole, where too are Robin Hood, Friar Tuck, and Maid Marian, from the rustic chivalry of ages long past: the Morris-dance originated from the Moors, (Morisco); and the Marian, perhaps, from Morion, a head-piece, because the head was gaily dressed.

Nor was this merely a rustic sport, for it was equally enjoyed by those "in populous city pent." In "jolly old London," on May-day, the doors were decorated with flowering branches, and every hat was decked with hawthorn, brought in triumph from the neighbouring fields. Then, May-poles were set up in various parts of London: Chaucer mentions the pole or shaft, in Leadenhall-street, higher than the steeple of the church of St. Andrew-under-shaft. Beaumont and Fletcher allude to the May-pole nearly on the site of the church of St. Mary-le-Strand; and its successor, when removed, was used for a telescope-stand in Essex; it had two gilt balls and a vane, on the summit, and was decorated on festival-days, with garlands of flowers. Another pole must have been set up in May Fair, just upon the verge of Hyde Park. The Puritans fought a stubborn battle with the May-poles—as "heathenish vanities of superstition and wickedness:"—

Alas! poor May-poles! what should be the cause That you were almost banished from the earth? Who never were rebellious to the lawes: Your greatest crime was honest, harmlesse mirth.

At the Restoration, May-poles were permitted to be erected again; though few held up their heads after the coup fanatique. They were condemned as pagan; but, on the observance of May Day, there could scarcely be any difference of opinion. Even the grave old Chronicler Stowe, talks of rejoicing the spirits with the beauty and savoury of sweet flowers, and with the notes of birds—praising Gon in their kind."

May has, indeed, been a "feast of the poets." Who does not remember Milton's glorious invocation to "flowery May," and "bounteous May," Then, too, the festive muse of Moore:

Of all the fair months that round the Sun In light-linked dance their circle run, Sweet May! sweet May! thou'rt dear to me

Even, the gentle Gray is roused to sing "We frolic while 'tis May." Yet, those who can "suck melancholy from a sorg" may find it in this month, and its frail flowers. Ben Jouson, in his exquisite ode "To the Memory of a Youth," after the long-standing oak, says:—

A lillie of a day
Is fairer farre in May,
Although it fall and die that night:
It was the plant and flower of light.

Among the superstitions of the month, it was a bad onen to be married in it—a notion as old as Ovid. Ou Old May Day, 1610, Henry IV. was assassinated by Ravaillac—a tragedy of such eventful consequences, that it must have added to the fatalities of the month.

Holy Thursday (Ascension Day), is still set apart for parachial perambulations, and beating bounds—a custom traceable to the pagan Terminns (Lat. bound), who was the gnardian of fields and landmarks, and the keeper-up of friendship and peace among men; the procession was formerly headed by the Bishop or Clergy, who sang Litanies in the fields, &c. A Homily was formerly set forth, for this day; for which, also, the Injunctions of Queen Elizabeth, in 1599, declared that a proper service should be provided.

Restoration Day observances are now but rare; though, formerly, the statues of Charles I. and II. were dressed with oak-branches, as was the tomb of the preserver of Charles II., at St. Giles's church, London. At Newcastle, it is called "Barge Day," there being on the Tyne a Corporation procession, similar to that on the Thames, on Lord Mayor's Day.

Whit Sunday, or Pentecost, or Whiten-Sunday, was named from its being one of the stated times for baptism in the ancient church, when those that were baptised put on white garments, as types of that spiritual purity which they had received. In Catholic countries, the priests, on this day, cast flowers from the upper ambulatories of their churches, upon the congregation of the faithful assembled in the nave below.

MAY.

The arrivals of birds this month are but few; we may expect the fly catcher and the sedge warbler, and the females of the previous arrivals; the females usually appearing a week or more later than the males. During the month the blackcap, willow wren, and generally the Summer warblers, will be in full song during the day, and the nightingale at night. Most birds are busy in nest building or in hatching.

The Spotted Fly Catcher is in length nearly five inches and three quarters; bill dnsky, the base of it whitish, and beset with short bristles; head and back light brown; wings dusky, edged with white; the breast and belly white; the throat, and sides under the wings, tinged with red; tail dusky; legs black.

The Sedge Warbler is about five inches and a half in length, and it can be distinguisbed, by a white streak extending from the gape towards the eye, but before it reaches that organ dividing itself into two, so that the eye is between the two divisions. This is always seen in the species, and it is a ready means of distinction.

Insects, during this month, become very nnmerous; moths and butterflies are very abundant; glow-worms shine; bees swarm, dragon flies; and beetles appear, &c.



THE BRAGON FLY-LIBELLULA VIRGO.

Dragon flies, or those insects which are commonly called horse-stingers (but why such a name should be applied we know not, as they are perfectly harmless), appear in this month; and, from their elegant forms, beautiful colours, the elegance and delicacy of their wings, which are as transparent as gauze, often ornamented with coloured spots, exhibiting, when viewed, at different inclinations of the sun's rays, all the tints of the rainbow, always attract a good deal of attention. Indeed, nothing can be more beautiful than to watch these brilliant insects, darting backwards and forwards in a continual flight after flies, moths, butterflies, and insects. Their mouth is capable of much distension; and, from their great activity, an insect when observed has but little chance of escape; they, in their turn, are devoured by birds.

There are many species of dragon files; but, in a popular work of this kind, we have only room to mention a few. The most remarkable is that called Libellula Varia; it may be seen about the decline of Summer, and is of singular beauty; its length is three inches; the wings, when expanded, are four inches from tip to tip; they are varied with yellow and brown, the tip with a white spot terminated by a black one. The head is very large; ncck slender; the eyes occupy by far the greater part of the head, and they are of a blue-grey with a varying lustre. The front is greenish yellow; the body is long, slender, and black, with rich variations of bright blue and grass green. The wings are perfectly transparent, and vary in appearance according to the inflections of light. This insect during the middle of the day is extremely rapid in its motions, darting off on the slightest alarm from the spot on which it had settled. During the early hours of the morning and late in the evening, it is easily taken: at such times it sits with its wings spread, and it will suffer itself to be readily seized by them.

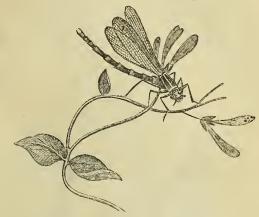
Libellula Grandis is the largest found in Britain, and is not inferior in bulk to any insect which this country produces. The fore-part of the bead is yellow, eyes brown and large; abdomen reddish, often spotted with white and black upon the top and bottom; wings more or less of a yellow complexion, and distinguished by a brown spot on the outer edges. The colours of this insect vanish when dead.

Libellula Virgo—(See the engraving above). This is one of the most elegant of the European insects. Its body is slender, long and cylindrical, which, as well as the head, is usually either of a bright but deep golden-green, or of a deep gilded blue; wings transparent at the base and tips, but are each marked in the middle by a very large oval patch of dark violet blue; this insect is common about waters.

Libellula Puella. A small but elegant species, wings colourless but transparent, and each marked near the tip with a small oblong, black spot. From the brilliancy and richness of its colours, it has been ealled the King's fisher. There are of this, as well as of the preceding one, different varieties according to the difference of spots and colours; but it is generally of a bright and beautiful sky blue, variegated with black bars on the joints. The eyes are round, protuberant, and placed on each side of the head at a distance from one another.

The addresses of the male of these species to the female seem carried on in a rough manner. He hovers about on the wing till the object of his amours makes her appearance; he then watches an opportunity of seizing her by the neck, with those pincers with which his tail is armed. In this way he flies through the air, till the female, yielding either to inclination or necessity, forms her body into a circle, adapted to the purpose of nature; consequently, two of these insects are frequently seen coupled in the air, exhibiting the form of a ring. The female, at a proper period, retires to some stagnant water, and deposits the eggs, which are of a white

colour, resembling those produced by the common blow fly. The larvæ are soon hatched, and the insect retains its aquatic habits nearly a year before it attains its full size; at which time the winged insect appears. Its life in this state is sbort in comparison with that which it passed in its aquatic form, the frosts of



THE NRAGON FLY-LIBELLULA PUELLA.

Autumn destroying all those that bave not been devoured by birds. Many persons would scarcely believe that these brilliant insects, flying with such rapidity in the pursuit of other insects, had been inhabitants of the water for a year. And it is impossible not to be struck with wonder in contemplating their changes, for while living in the water, they would perish by a long exposure to the air; in their winged state, they would be destroyed by submersion under the water—an instance not less striking than that of the butterfly in point of form, which exhibiting one and the same animal appears in different periods of its existence.



THE COCKCHAFFER.

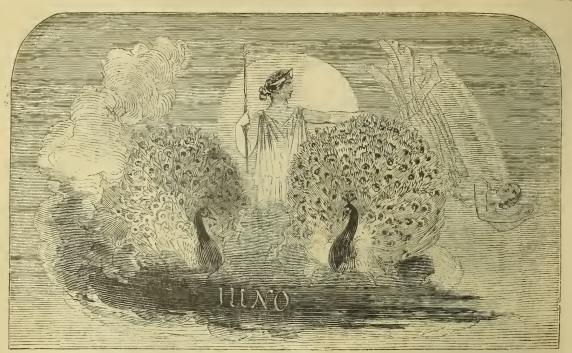
This insect is very abundant in our island, and it has a variety of names; for instance, as the brown tree beetle, blind beetle, May bug, chaffer, May bob, or oak web, jack horner, geffry cock, acre bob, &c., as it is variously termed in different parts of the country.

Its colour is brown; thorax hairy; tail inflected; a triangular white spot at each incisure of the abdomen. The larvæ is soft and gray, with the head and legs protected by a shelly covering of a yellow, brown colour. While in the larvæ state, which continues for a space of two or three years, it devours the roots of corn, grass, and other vegetables. They are much sought after by erows, rooks, and other birds, as well as animals. It is the larvæ of this insect that is so frequently turned up by plougbing, and in quest of which crows are often seen following the tracks of the plougb-share. Children are also employed to follow the plough and collect the white worms, as they are called.

The eggs are laid in small detached heaps beneath the surface of some clod; and the young, when first hatched, are scarcely more than one eighbt of an inch in length, gradually increasing in their growth, occasionally changing their skins, until they are of the size of two inches or more. At this time they descend to the depth of two feet, where they construct an oval cell, very smooth in the inside; and, after a certain time, divest themselves of their last skin, and appear in the chrysalls form; in which they continue till the succeeding Spring, when they assume the perfect beetle; but remain for a considerable time in a weak state, not venturing out till the fine days of May or the beginning of June; at which time the beetle emerges from its retirement and commits its depredations on the leaves of trees &c.; breeds and deposits its eggs: after which its life is short. It is eagerly sought after by swine, bats, crows, and many kinds of birds.

We cannot conclude this account without expressing a hope that when it is advisable to destroy these insects, that means should be adopted to do it in the quickest possible way; and that children should be checked from the very cruel practice of running a pin through the curious pointed extremity of its body, round which the beetle whirls in its endeavours to escape from the torture inflicted upon it.

The vegetable world is in a very active state; during the month, the following plants will be in flower:—Common privet in thickets; speedwell, in pastnres; common butter-wort in moist heaths; holly tree in hedges; cream-coloured violet on heaths; heartsease in corn-fields; honeysuckle in thickets; buck-thorn in bedges; lesser periwinkle in thickets; greater periwinkle in moist places; narcissus in sandy pastures; hare-bell in thickets; lily of the valley on shady hills; common lily of the valley in thickets; barberry in hedges; cultivated cherry-tree, apple, bramble, pheasant's eye, crowfoot, butter-cup, candytuft; bryony, Scotch fir-tree, willow &c., &c.

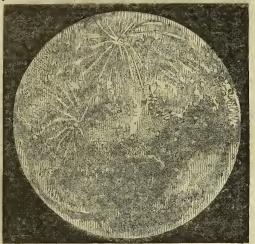


-																
M D	W	ANNIVERSABLES, OCCURRENCES, AND FESTIVALS.		ses-R	Decl		Rises-R		-	Age		lon B	ridge.		Equation of Time	Day of the Year
-	-		H S	M.	O	/	Sets-S	и.	M.	D.	Mori	mg.	After	noon	Subtract.	
	$ \mathbf{M} $	Whit Monday.—Nicomede—He was a pupil of	3	51 R	22	3				7	6	26	6	50	2 33	152
6	Tu	St. Peter, and was discovered to be n Christian by his burrying Felicula,	8	5 s	22	11	Morning 0 13		rnoon 25		7	12	7	39	2 24	
	3 W	a martyr. He was heaten to death with leaden plummets on account of his religion, in the reign of Domitian—Oxford Triuity Term hegins.	3	_		18	0 34	s 7	9	0	8	8	8	42	2 14	154
	4 (17)	Saturn rises at 0h. 25m. A.M. in S.E.	8	7 s	$\frac{22}{22}$	26	0 57	S 7	54	10	9	15	9	46	$\begin{bmatrix} 2 & 14 \\ 2 & 5 \end{bmatrix}$	
	F	Boniface.—In 745 St. Boniface was created Bishop	1 -	49 R		33	1 21	s 8	41	11	10	16	10	46	1 55	1 2 5 0
1	S	of Mentz. He was a Saxon Presbyter, horn in England, and at first called Winefrid; he was a friend and number of the Venerable Bede.	Q	9 s		39	1 47	s 9	31	12	11	16	11	48	1 44	157
	5	Winefrid; he was a friend and numirer of the Venerable Bede. TRINITY SUNDAY is the festival of the Christian	2		$\frac{22}{22}$		0 00	0			11	10	11	12	1 33	
,	M	Church, observed on the Sunday next after Whit-Sunday, in bonour of the	0	11s	$\frac{22}{22}$	45	0 50	s 10	25	10	0	38	1		1 90	159
	Tu	Holy Trinity. The observation of this festival was first enjoined in the Council of Arles, A.D. 1260.	0	1		51	2 58	SILI	22	14	0		1	0	1 42	160
1 1	w	Orford shot at the Oueen 1940	0	46R	22	56	3 18	Mo	rning.	9	1	25	1	47	0 50	
1 1	Tr	Oxford shot at the Queen, 1840	8		23	1	Afternoon		21	10	$\frac{2}{2}$	11	2	34	0 59	
	ITH 2F	Corpus Christi—A festival of the Romish Church, held on the Thursday after Trinity Sunday. It celebrates, as the name indi- cates, the doctrine of the transubstantiation; and is observed in Carbolic	3			5	9 42	1	21	17	2	57	3	18	0 48	1
1 -		cates, the doctrine of the transubstantiation; and is observed in Catholic countries with considerable ceremony,—St. Barnabas,	8		23	9	10 22	1 -	20	18	3	40	4	3	0 36	
1:	4 624		3	45R	23	13	10 53	-1	18	19	4	25	4	50	0 23	
11	L N	1st Sunday after Trinity	8	16s	23	16	11 23	_1 '	13	20	5	15	5	41	0 11	165
13		Magna Charta signed, 1215	3	44R	23	19	11 48	^K 5	6	21	6	5	6	33	Add.	166
	TU	Duke of Marlborough died, 1722, aged 72	8	16 s	23	22	Morning		57	(7	0	7	30	0 14	167
	7 W	Cobbett died, 1835, aged 73	3	44R	23	24	0 15	^R 6		23	8	1		34	0 27	168
		Battle of Waterloo, 1815. Cost £13,000,000	8	17 s	23	25	0 41	R 7	37	24	9	8	9	41	0 40	169
1:		Sir Joseph Banks died, 1820	3	44R	23	26	1 11	R 8	27	25	10	13	10	49	0 53	170
20	0 S	Accession of Queen Victoria, 1837	8	18s	23	27	1 42	R 9	17	26	11	22	11	53	1 6	171
2	1 S	2ND SUNDAY AFTER TRINITY—Longest day	3	44^{R}	23	27	2 19	R 10	8	27		- {	0	23	1 19	172
2:	$2 \mathbf{M} $	Battle of Vittoria, 1813	8	19 s	23	27	3 1	R 10	59	28	0	48	1	13	1 32	173
2	$3 \mathbf{T}\mathbf{v} $	Akenside died, 1770	3	45^{R}	23	27	3 45	R 11	50		1	38	1	58	1 45	174
2	$_{\rm 4 W}$	St. John Baptist—Midsummer day	8	19 s	23	26	Afternoo	n. Afte	rnoon	1	2	21	2	42	1 58	175
2.	5 Тн	No real night till the middle of July	3	46^{R}	23	25	9 0	0 -	26	2	3	2	3	19	2 11	176
2		George IV. died, 1830	8	18 s	23	23	9 29	s 2	12	3	3	36	3	55	2 24	177
2	7 S	Saturn rises at 10h. 54m. P.M. in S.E.	3	46 R	23	21	9 54	s 2	56	4	4	11	4	29	2 37	178
2	3 5	3RD SUN. AFTER TRINITY—Queen Vic. cr. 1838	8	18 ^s	23	18	10 17	s 3	39	5	4	46	5	3	2 49	179
2	9 M	St. Peter-A high festival of the Roman Catholic		47 R	23	15	10 41	s 4	22	6	5	20	5	39	3 1	180
3	Tu	Church, and a holiday of the Church of England. It is celebrated at Rome with illuminations and magnificent ceremonials.		18 ^s	23	12	11 1	s 5	4	7	5	58	6	16	3 13	181
		RIGHT ASCE	NS1	ONS A	ND	DEC	LINATIO	NS O	F TH	E PI	LANE	ETS.				
1 cry		about the Man and Minary and Minary					1			1						40

JUNE.

When the Sun is more than 33 minutes of space below the horizon, no rays of light from him can reach our eyes, but they pass over our head, and illuminate the heavens. This illumination is called twilight, and continnes, it is generally supposed, till the San is more than 18 degs. below the horizon, now the Sun is never more than 18 degs. below the horizon in England, from May 23rd to July 20th; and, consequently, no absolute darkness takes place between these times. At all other times of the year the Sun sinks more than 18 degs. below the horizon, and the evening twilight ends at that time, and the morning twilight begins when he is at the same distance below the E. horizon. It is doubly useful, since it shortens the night, and prevents at the same time the sudden transition from light to darkness.

Next to the Sun, the Moon is the most remarkable of the hoavenly bodies. As seen by the naked eye certain portions of the Moon appear darker than the rest, and viewed through a telescope the whole of her surface is irregularly marked, as represented in the following drawing.



TELESCOPIC APPEARANCE OF THE MOON IN HER MEAN LIBRATION.

Of these marks there are two distant classes; those which appear precisely the same with respect to forms and intensity of light and shade at all agos of the Moon, and those which are variable in appearance. The former class of marks appears to result from some peculiarity in the surface of the Moon, absorbing, at some parts, a greater or less number of the Sun's rays than at other parts; and they are of different colours; some parts are grey, others of a light green, and there are some streaks of a dark colour.

The latter class appears to consist of hills, mountains, bands of light, valleys, and deep cavities.

That these great inequalities on the surface of the Moon exist, is proved by looking at her through a telescope at any time when she is not full, and the best time to study these interesting appearances, is when the Moon is either horned or gibbous: the edge about the confines of the illuminated part is then jagged and nneven, and the Sun shining on the tops of the hills, before his rays can fall on the intermediate plains, form beautiful islands of light in the dark part of the Moon; these may be seen well about the fourth day after new Moon; as are exhibited in a few cases in the drawing in February. At this wime, too, may be perceived other little spaces which join the enlightened surface, but run into the dark part, which gradually change their form, till at last they come wholly within the illuminated part, having no darkness around them at all. Afterwards many more such shining spaces arise by degrees, and appear as before, within the dark side of the Moon, which, before they draw near to the illuminated portion, are invisible, being

in shadow. During the time that the phases are decreasing, the reverse takes place. Those bright spaces which joined the illuminated part recede gradually from it, and remain visible after they are quite separated from the limits of light and darkness. This could not possibly be the ease, unless the shining parts were at some distance from the surface of the Moon, so that the Sun can shine on the tops of the mountains, before he can on the plains below.

These appearances render it certain that the surface of the Moon is covered with high mountains, and with masses of unknown matter; but which has the property of reflecting the Sun's light. By means of the shadows of the lunar mountains, their heights have been ascertained; some of which are nearly 18,000 feet high.

Numerous eavities also appear in every part of her surface—some of which are upwards of 3 miles in depth, and from 20 to 30 miles in circumference; in some of these enormous caverns, a single mountain is observed to rise from the centre—(See August). In looking at the Moon the mountains can be distinguished from the valleys, by the shadows of the former being from the Sun, and by those parts of the valleys being in shade which are towards the Sun.

The motion of the Moon is remarkable. In the course of a few hours sho sensibly approaches to, or separates herself from, the Stars that are near her; she moves over a space nearly equal to her own diameter in an hour, and completes a whole circuit in about twenty-seven days.

The marks on the Moon present no changes of form, and retain towards each other the same relative situations, and also, with slight variations, to the apparent centre of the Moon. The Moon, therefore, at all times, presents very nearly the same half towards the Earth; and, if this be the case, then the Moon must turn upon her axis in the same time as she takes to revolve round the Earth. The Moon is carried along by the Earth in its revolution round the Sun; and, while the latter takes a year to perform its revolution, the Moon performs thirteen and a half of her revolutions round the Earth. The extent of the Moon's visible hemisphere is not always the same; small segments on the East and West sides alternately appear and disappear; or, in other words, a little more of her disc is seen sometimes on the West side, and sometimes on the East side, than at other times, which variations are called libration in longitude. In our engraving she is represented at her mean libration.

With reference to the Sun, the Moon has a day whose length is nearly fifteen of our days, and a night of the same duration.

With reference to the Earth, one half of the Moon is so placed, that the Earth cannot be seen from her at all; and the other half can see it for half a month at one.time.

With reference to the Sun and the Earth conjointly, one half of the Moon has no darkness at all, while the other half has half a month of light, and half a month of darkness, alternately; that which has no darkness at all; being illuminated by the Earth shine during its long night.

Nothing indicative of the presence of water can be seen on the Moon's surface, although the dark spots on her surface were formerly supposed to be water. With a good telescope, elevations and cavities are distinctly visible in them; in fact, she appears to be without water, clouds, or vapour, and, consequently, without sound; her surface appears to consist of desolate wastes. The application of Lord Rosse's magnificent telescope to the Moon, may increase our knowledge on the constitution of her surface.

The following is the position of the Constellations that are rising; on the meridian; and setting on the 1st day at midnight:--

Constellations Rising.	Constellations on the Meridian	Constellations Setting.
A part of Perseus in N.N.E.	A part of Anriga 15° above N. horizon	Gemini in N.W. by N.
Pisces in N.E. by E.	Camelopardalus 30° above	Cancer in N.W.
Pegasus in E.	N. horizon Draco, between Polaris	Leo in W.N.W.
Aquarins in E. by S.	and Zenith Herculus 60° above S.	Sextans in W.
A part of Capricornus in	horizon Ophinchus 50° above S.	Corvus in S.W. by W.
S.E. by E.	horizon Scorpio 20° above S. hori-	
S.E. by S.		Lupus in S. by W.

		ASTRONOMICA	AL OCCURRENCES	IN	JUNE.		
	Plane	CTS.		Occultat	cions of Stars by til	E Moon.	
Names.	Time of passing the Meridian or Southing, on the 15th day.	When near the Moon.	Distance from the Moon North or Sonth.		Name of the Star.	Time of disappearance and re-appearanco of the Star.	At the dark or bright himb of the Moon.
Mercnry	н. м. 11 33 а.м.	D. н. 24 4 а.м.	DEG. 6 North		c' Capricorni . }	D. H. M. 14 1 17 A.M. 14 1 52 ,,	Bright Dark
Venus	9 4 "	20 4 ,,	2 Sonth		,	"	
Mars	2 З Р.М.	25 2 "	6 North	1			
Jnpiter	10 22 A.M.	21 8 "	2 North				
Saturn :	4 41 "	14 6 р.м.	6 Sonth				
Uranus	7 19 "	17 6 "	3 South	!			

June 3d. 1h. A.M., Venus at the greatest distance from the Sun.

June 18th. 7h. A.M., Mercury at the least distance from the Sun. June 20th. 0h. (noon), Mercury in superior conjunction with the Sun—(See September.)

June 21st. 8h. 32m. F.M., Sun enters Cancer; Summer commences.



THE YEAR AND HIS BRIDE, AS KING AND QUEEN OF THE FEAST OF SHEEPSHEARING, PRESIDING AT THE SPORT OF WRESTLING.

JUNE bears distinct evidence of its pagan nomenclature, from Juno. Our Saxon | ancestors named it, more reasonably, Weyd-Monath; "because," says Verstegan, "their beasts did then weyd in the meddowes, that is to say, goe to feed there." It was afterwards called Sere-Monath, or dry month.

Whitsuntide, was formerly kept with many feasts called Ales, because much ale was then drnnk: thus there were bride-ales, clerk-ales, give-ales, lamb-ales, leet-ales, Midsummer-ales, Scot-ales, and several more. Stool-ball and barleybreak were, also, Whitsun sports: in "ancient tymes," too, Whitsun plays were neted: at Chester, they were twenty-five in number, and were performed for above three centuries, annually. The Morris Dance was another Whitsun sport; and Fairs were common, more especially in the neighbourhood of London. Aubrey, in his account of North Wilts, has left us the following account of Whitsun Ales (temp. 1711): "There were no rates for the poor in my grandfather's days; but, for Kington St. Michael (no small parish) the Church Ale of Whitsuntide did the business. In every parish is (or was) a church-house, to which belonged spits, crocks, &c., for dressing provision. Here the housekeepers met and were merry, and gave their charity. The young people were there, too, and had dancing, bowling, shooting at butts, &c.; the ancients sitting gravely by, and looking on."-(See Britton's Memoir of Aubrey, 1845.) At this day, Whitsuntide is the usual time for "making rates."

Sir John Suckling, in his "Ballad upon a Wedding," hints at the rustic beauty present at these festivals :-

The maid, and thereby hangs a tale. For such a maid no Whitsun ale Could ever yet produce.

At Whitsuntide the students of Winchester College break up with the solemn performance of the well-known ode or song of Dulce Domum, the celebration of which is invariably attended by the leading clergy and gentry of the town and neighbourhood. Its origin is involved in mystery, as well as the occasion of its composition: tradition ascribes it to a youth in a state of melancholy, wasting his life in fruitless sorrow, at his separation from home and friends.

Sheepshearing Time is marked in the Ephemeris of Nature, June 5, as Tonsura;

Her silver flowers, if humble Daines yield To yellow Crowfoot, and luxuriant grass, Again, of its homely joys:

Again, of its homely joys:

At Shearing Time.

Again, or to nomery 1992.

At Shearing Time, along the lively vales, Rural festivities are often heard:

Beneath each blooming arbour all is joy and lusty merriment: while on the grass The mingled youth in gaudy circles sport, We think the golden age again return'd, And all the fabled Dryades in dance. Leering they hound along, with laughing air,

Leering they hound along, with laughing air,

When the heart listens.

Wrestling was another sport of Shearing Time, and the usual prize was a ram. Chaucer says of Sir Thopas :-

Of wrastling there was none his pere, Where any Ram shulde stande.

But, according to the old poem called "A Lytel Geste of Robyn Hode," prizes of greater value and dignity were sometimes given-a white bull a great courser, with saddle and bridle, a pipe of wine, and a red gold ring.

Wrestling was borrowed from the Olympic games; it was, too, the accomplishment of a hero, in the ages of chivalry. Sir Thomas Parkyns, Bart., the celebrated Wrestler, published a mathematical Treatise on his favourite sport

Trinity and St. Barnabas were formerly auciently commemorated with proeessions, "ghirlands" of flowers, &c. Ray has a proverb :-

Barnaby Bright, Barnaby Bright, The longest day and the shortest night;

indicating the almost nightless day of the solsticial season.

Corpus Christi is, in Catholic countries, eelebrated with music, lights, flowers strewed in the streets; tapestries hung out of the windows; Coventry plays, &c.: and many are the entries in old church-books, of rose-garlands and torehes on Corpus Christi. In the festivals of this day, too, originated Shrewsbury Show, and similar pageants of trading companies, corporation officers, and religious fraternities. In 1845, there was at Nottingham a splendid procession, on Corpus Christi day, at the newly-erected Catholic Church, dedicated to St. Barnabas.

Midsummer Eve, the Vigil of St. John the Baptist's Day, was formerly welcomed with bonfires, supposed to be a relic of Druidical superstition. Gathering roses, and sowing hemp-seed, for love-divinations, were also Midsummer-eve eustoms. The Summer-day of the poet is one of unclouded splendour:

The time so trauquil is and clear,
That nowhere shall ye find,
Save on a bigh and barren hill,
An air of passing wind.
All trees and simples, great and small,
That balmy leaf do hear,

Than they were painted on a wall,
No more they move or steir.
The rivers fresh, the caller streams
O'er rocks can swiftly rin,
The water clear like erystal heams,
And makes a pleasant din.
ALEXANDER HUMB.

In all the floral festivities of this period, the rose is distinguished:-

The hlushing rose, within whose virgin le aves,
The wantou wind to sport himself presumes,
Whilst from their rifled wardrobe he receives,
For his wings purple, for his hreath perfumes.—Fanshawe.

Herrick has left us this lyric calendar of festal "Country Life," which may not inappropriately be quoted here :-

ppropriately be quoted here:—
For sports, for pageantry, and plays,
Thou hast thy eves and holidays
On which the young men and maids meet,
To exercise their dancing feet;
Tripping the comely country round,
With daffodils and daistes crown!d.
Thy wakes, thy quintels, here thou hast;
Thy May-poles, too, with garlands
grac d;

Thy Morris-dance, thy Whitsun ale,
Thy shearing Feast, which never fail;
Thy harvest-home, thy wassail bowl,
That's tost up after fox i' th' hole;
Thy mummeries, thy twielfth night kings
And queens, thy Christmas revellings;
Thy nut-frown mirth, thy russet-wit;
And no man pays too dear for it.

JUNE.

THE songs of the birds continue; the skylark may frequently be heard soon after two o'clock in the morning; young birds are now in abundance, and the old ones are much engaged attending to them. Rooks desert their rookery with their young ones. The swallow tribe are very active, and the call of the quail is beard



Insects abound everywhere, and they are too abundant even to enumerate; the stag-beetle during this month flies on fine evenings. Grasshoppers appear; young frogs migrate. Butterflies and moths are innumerable; for an account of the former (see next month). We shall at once proceed with that of one species of the latter.

The distinguishing characteristics of moths are sharp-pointed horns, which in many species are simple, and in many are beautifully feathered along the sides. This genus, like that of the butterfly, is so exceedingly numerous, that we have room only to speak of one fully. The one we have chosen is designated Bombyx. The insects of this tribe fly only in the evening. During the day they lie under the leaves, or beneath the branches, or in the clefts of trees; towards evening they crawl about, then flutter their wings, and become active as the evening advances; finally they start from the trees, and continue flying about till it is quite dark. The males are commonly the first on the wing in search of the females, which in some few species are without wings, in which case they wait upon the trees or herbage for the arrival of the male. They are all produced from caterpillars; these are of a long cylindrical form, having in some few species a smooth skin; sometimes the skin is covered with a fine silky down or hairs, and some of the larger kinds are covered with spines or bristles.

All the larvæ subsist on vegetables. Their jaws are strong and of a horny texture; and below there is a small opening through which the creature draws a silky thread, which is of considerable use to it, for when it wishes to descend from one branch of the tree to another, instead of pursuing a circuitous route, by crawling or walking, it need only fasten one end of the thread to any particular spot, and lower itself by its assistance to the place required. In a similar way, when observed by birds or other enemies, it can drop in an instant and elnde the enemy, waiting concealed among the leaves till the danger is over, and then remounting to its former spot by aid of its silken thread.

Like other larvæ of the moth tribe, they cast their skins several times. When full grown, and approaching the pupa state, they spin a sort of web, as is well known in the case of the silkworm (Bombyx mort) which is of this genus. These moths remain in this state within their cocoon for a certain time, some for only a few days, others a few weeks, and others many months. The same day that the creatures emerge from the pupa state they are in a condition to perpetuate their race; almost immediately after which the male dies; and the females expire soon after they have deposited their eggs in a proper place for the young brood to find subsistence.

The cocoons of some of these species are employed in the East Indies for the manufacture of silk. We now proceed to describe a few of the species, which may be expected to appear this month.

Eombyx Potatoria, the engraving of which is above, wings slightly indented, yellow brown, with two white dots, in the upper pair. The caterpillar from which this moth proceeds is tailed, crested, hairy, dark brown, speckled with white.

Bombyx Vinula. This is a very elegant insect, without being remarkable for the gaiety of its colours. Its wings are grey, with blackish streaks; the thorax and abdomen grey, spotted with brown, and both are extremely downy; the body is marked with transverse black bars. The caterpillar of this moth is far more brilliant than the moth itself; it is nearly two inches in length, and it is of a beautiful green, with the back of a dull purple; being separated from the green on the sides by a pair of white stripes, which begin from the lead, run upwards to the top of the back, and from thence are continued along the sides to the tail; the face is flat, yellowish, surrounded by two borders, the inner one

black, the outer one red; and it is distinguished by two black eyes or spots on each side of the upper part. On the insect being irritated, two long red horns proceed from the tail; the insect seems to use them for the purpose of frightening its disturbers. This creature possesses the power of ejecting from its mouth, to



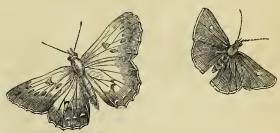
MOTH: BOMBYX VINULA.

a considerable distance, an aerid reddish fluid, which it uses as a further defence and which produces considerable irritation, if thrown into the eyes of the spectator. This caterpillar may be found on willows and poplars. The chrysalis is thick, short, and black, and, in the month of May or June, gives birth to the moth.

Bombyx Caja, or Great Tiger Moth. The upper wings whitish, with irregular blackish spots; lower ones orange, spotted with black. The caterpillar is of a deep brown, with white specks; extremely hairy, and feeds on plants. It changes into a chrysalis in June, and the moth appears in July.

We now proceed briefly to describe a few butterflies visible in this mouth:-

The Cabbage Butterfly. The wings are rounded, entire, white; tip of the upper pair brown. This is the common white butterfly, known in our gardens; it proceeds from a yellowish caterpillar, freekled with bluish and black spots, and which changes during Autumn into a yellowish grey chrysalis; the butterfly appears early in the Spring, and is seen almost throughout the Summer.



ARION. ARTAXERXES.

Arion. Wings above are blue, edged with brown, and spotted with black beneath grey, with many small eyes.

Artaxerxes. Wings brown, upper pair with a white dot in the middle, lower nes with red marginal spaces, with red and wlute dots on the margin.



STAG BEETLE.

Lucanus Cervus; Stag Beetle, sometimes measures nearly two inches and a half in length, from the tips of the jaws to the end of the body. Its general colour is a deep chesnut, with the thorax and head, which is of a blacker cast; the jaws are often of a brighter or redder chesnut colour than the wing shells; the legs and under parts are black, and the wings, except during flight, are concealed under the shells, are large, and of a fine pale yellowish brown.

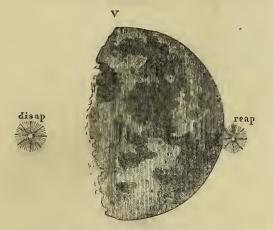


M	w		Sun. Rises—R.: Declina-			na- Rises-R. Sautha 14-				Iligh Water at					Day of
D	D	ANNIVERSARIES, OCCURRENCES, AND FESTIVALS.		ts-S. tion !		Sets-S.	Sou	ths. Ag	0		Afterr	noon	Ad		the Year
1	337	Datala af the Mile 1700	3	M. 0	1	и, м.	н.	M D.		м.	B.	M.	N.	a.	100
0		Battle of the Nile, 1780		49 20	8	Afternoon.		noon	6	37	240	59	3		182
3		Hungerford market opened, 1833	8	17 s 23	4	11 49 s	6	$\frac{32}{20}$		21	-	46		37	183
		Dog days begin—This name was given in reference to the heliacal rising of Sirius, commonly called the Dog Star, which in Pliny's	3	50 R 23	- 0	Morning.	7	20 10	10	15		49	3	48	184
4		time was on the 18th of July	0	16 s 22	55	0 1/	8	1111	$\frac{1}{9}$	21	9	53	3	59	185
5	1	4TH SUNDAY AFTER TRINITY	3	52 R 22	49	0.91	9	5 12		25	11	0	4	10	186
6		Old Midsummer-day—Adam Smith died, 1790	8	15 s 22	43	1 33 s	10	3 13		34		-	4	20	187
6	TU	St. Thomas à Becket—Commemorative of the	1	54R 22	3/	$ 224^{s}$	11	3 14		4		33	4	30	188
8	1	assassination of this extraordinary man hefore the Altar in Canterbury Cathedral—Oxford Act and Cambridge Commencement	8	14 s 22	31	Afternoon.	Mori		0	59	1	27	4	39	189
1 3		Bourbons restored, 1815—Massacre in Madrid,		56R 22	24	8 17 ^R	0	4 1	- 11	50	2	14	4	48	190
10		Mercury sets at 9h. 22m. P.M. [1834]	8	13 s 22	17	8 53 ^R	1	4 17	2	40	3	5	4	57	191
11	S	Oxford Trinity Terms ends	3	58R 22	9	9 25 R	2	3 18	11 -	30	-	53	5	5	192
12		5TH SUNDAY AFTER TRINITY	8	12 s 22	1	9 53 R	2	58 1		16	ì	38	5	13	193
13	-	Parliament at Nottingham, 1334	4	$0^{R} 21$	52	10 19 R	3	52 2	- 11	4		28	5	21	194
14		Venus rises at 1h. 30m. A.M.	8	10 s 21	43	10 46 K	4	44 2	1 5	53	6	16	5	28	195
15		St. Swithin—Remarkable on account of a well-known popular notion, that if it rain on this day, there will be more or learning for forty days to come. St. Swithin lived a blousand and three years	4	2 R 21	34	11 16 ^R	5	34 (6	40	7	7	5	34	196
10	Тн	rain for forty days to come. St. Swithin lived a shousand and three years	8	8 s 21	25	11 46 ^R	6	25 2.		33	8	3	5	40	197
17	11.0	ago. He was an eminently plous and learned bishop of Winchester, and priest of King Eghert	4	4 R 21	15	Morning.	7	15 2		30	9	8	5	46	198
18		Mars sets at 9h. 0m. P.M.	8	6 s 21	4	0.21^{R}		5 2	11 -	42	10	17	5	51	199
19	1	6TH SUNDAY AFTER TRINITY	4	$6^{R} 20$	54	1 2 R	8	56 2	-	53	11	30	5	56	200
20	M	Burns died, 1796, aged 37	8	4 s 20	43	1 48 R	9	46 2			0	41	6	0	201
21	Tυ	Lord William Russell beheaded, 1683	4	$9^{\text{R}} 20$	31	$2 40^{R}$	10	35 2		34	1	0	6	3	202
22	W	Jupiter rises at 0h. 29m. A.M.	8	2 20	20	$3 35^{R}$	11	23 2	$9 \parallel 1$	23	1	45	6	6	203
23	TH	Gibraltar taken, 1704	4	$11^{R} 20$	8	4 33 R	Afte	rnoon	2	7	2	24	6	8	204
24	\mathbf{F}	Saturn rises at 9h. 6m. P.M.	7	58 s 19	55	Afternoon.	0	54	$1 \mid 2$	44	_	0	6	10	205
25		St. James	4	$14^{R} 19$	42	8 23 s	1		$2 \parallel 3$	16	3	35	6	12	206
26	S	7TH SUNDAY AFTER TRINITY	7	$54 ^{\rm s} 19$	29	8 47 s	2	1	$3 \parallel 3$	50	4	5	6	12	207
27	M	Revolution in Paris, 1830, lasted three days	4	17 R 19	16	9 7 s	3	2	4 4	21	4	37	6	12	208
28		Robespierre guillotined, 1794	7	51 s 19	2	9 30 8	10		5 4	52	5	10	6	12	209
29	W	Fieschi's "infernal machine" exploded, 1835	4	21 R 18	48	9 52		28	$6 \mid 5$	26		43	6	10	210
30	T _H	Uranus rises at 9h. 54m. P.M.	7	49 ^s 18	34	10 19 8	5	13	$7 \parallel 6$	2	6	21	6	9	211
31	$ \mathbf{F} $	Greenwich Hospital founded, 1696	4	2 R 18	19	$10 50^{8}$	6	1]	6	42	7	4	6	6	212
		RIGHT ASCENS	NS AND	DE	CLINATION	NS (OF TH	E PL	ANE	TS.					

	- 1			1	RIGHT	ASCEN	STON	S AT	VD DEC	TIN	TION	S OF	THE	PT.A?	NETS.			-11-	
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Times of changes of tha Moon, and D when she is at her greatest distance	ays	MER	CURY.		VEN	US.	1	MAI	1.8	1	JUPIT	ER.		BATU	RN.	1	URAN	σs.	
(Apogee), or at her least distance t	he M.	Right Ascension	Declina- tion North.		ight ension.	Declina- tion North,	Asce	ight nsion.	Declina- tion North.		ight nsion.	Declina- tion North.	Rig		Declina- tion South.		ight	Deci tio No	n
First Quarter 1d. 9h. 24m. P.M.	1	7h. 35n	. 23° . 33	3h.	49m.	17° 46′	8h.	19m.	20° 50	4h.	11m.	20° 19	22h.	12m.	12° 41	Oh.	53m.	40	57'
Full Moon 8 *3 11 ,,	6	8 15	21 39	4	13	19 2	8	32	20 5	4	15	20 31	22	12	12 46	0	53	4	58
Third Quarter 18 1 24 ,,	11	8 50	19 12	4	37	20 7	8	45	19 17	4	19	20 41	22	11	12 52	0	53	4	59
New Moon 23 8 3 A.M.	16	9 20	16 27	5	1	21 1	8	58	18 25	4	23	20 51	22	10	12 58	0	54	5	0
First Quarter 31 11 3 ,,	21 {	9 46	13 34	5	26	21 42	9	11	17 30	4	28	21 0	22	9	13 4	0	54	5	0 1
Anorrea 95 7	26	10 8	10 44	5	51	22 9	9	24	16 32	4	31	21 9	22	8	13 12	0	54	4	59

JULY.

THE Moon in her path must necessarily pass between the Earth, and many Stars; and, therefore, canses an occultation of the Star. The times at which some of the Stars are thus hidden by the Moon, are noted in the Astronomical Occurrences of each month; but, during this year there will be only one Star of the first magnitude occulted by the Moon. This phenomenon takes place on July 2d., and is represented in the following Engraving.



occultation of a virginis.

The Stars generally become invisible to the naked eye on the approach of the Moon, on account of the quantity of light from the Moon quite drowning that of the but, it is possible that this Star may be traced to its disappearance by the naked eye. The disappearance of a Star, when occulted by the Moon, is instantaneous, and, to a person who observes such for the first time is very striking; the Star being bright, and in an instant gone altogether without any apparent cause. The Star, on this occasion, is most favourably situated, the disappearance occurring on the dark side of the Moon at the place, as shown in the engraving: and it will take place at 13 minutes after 8 o'clock in the evening. The Star will be behind the Moon for one honr and fifteen minntes, and will re-appear at the part of the bright limb as shown in the engraving, at twenty-eight minutes after Its re-appearance will not be so striking as its disappearance, because it emerges at the illuminated limb; but when a Star re-appears at the dark limb, it is as striking as when it disappears at that limb; appearing instantaneously and shining brilliantly, when a moment before nothing was visible.

The drawing of the Moon represents her when about nine days old, and when she is more than a half Moon, and is of that form called gibbous; the similar shining spaces may be seen here as were shown in the engraving in February in the dark part of the Moon near to the confines of light and darkness. The letter V indicates the highest point of the Moon at the time of the phenomenon,

The varying phases of the Moon are as follows:-That side of the Moon can be only illnminated which at any time is towards the Sun, the other sido remaining in darkness; and as that part of ber can only be seen by us which is turned towards the Earth, we perceive different portions of her illuminated, according to her various positions with respect to the Sun and the Earth. At the time when she is in, above, or below the same straight line, joining the Sun and the Earth, and between them, her dark side is wholly turned towards us, and in that situation she is called the New Moon; at which time she is invisible to us; and if she be, at this time, absolutely in the same straight line joining the Sun and the Earth, an Eclipse of the Sun takes place. In a short time afterwards she appears like a fine crescent in the afternoon, with her horns turned towards the East; as she advances in her orbit, the crescent increases till when she is about a week old, she appears a half Moon, and afterwards increases till she is again in, above, or below the line joining the Sun and the Earth prolonged, the Earth being

between them. And if the line from the Sun to the Earth passes to the centre of the Moon, an Echipse of the latter takes place. She then gradually decreases and disappears again as at first mentioned.

For some days after the New Moon has appeared, the dark portion of her disc, not exposed to the Sun, is distinctly visible, and is well known as the New Moon in the old one's arms. This effect is best seen when the Moon is about three or fonr days old, and its true canse was first pointed out by Leonardo da Vinci, who attributed it to the light arising from scattered beams of the Sun being bent into the Earth's shadow by refraction, and reflected to the Moon, and that they undergo a second reflection at the Moon's snrface, and are transmitted back to the Eartb. This hypothesis is favonrably received by Astronomers.

This phenomenon was ascribed by the ancients to the native light of the Moon, to which, on account of its pale ashy hne, they gave the name lumen incinerosum, and it is called by the French, lumière cendrée. At the Moon the Earth appears the largest body in the Universe, appearing thirteen times greater than the Moon does to us, exhibiting similar phases to herself, but in the opposite order; for when the Moon is full to us, the Earth is invisible at the Moon; and when the Moon is new to us, the Earth appears fully illuminated at the Moon. It follows, as the Earth is so much larger than the Moon, that more light is reflected from the Earth to the Moon than we receive from the Moon-and, as it happens that at about the time of New Moon, the Earth is nearly full to her, and reflects so much light upon her, that the whole of that side which is towards the Earth becomes visible, as well as that portion which is illuminated by the Sun. Schröter considered that a brighter reflection appeared on this obscure part of the Moon, when the land was so situated as to receive the rays from the Sun which were reflected to the Moon, than when they fell on the Pacific or Atlantic Oceans.

Mercury, on July 1st, sets midway between N.W. by W. and the N.W.; at 9h. 16m. P.M., be is situated near Castor and Pollux, at about 4 degrees further from the Pole Star than Pollux is from that star. On the 15th he sets near the W.N.W. point of the horizon, at 9h. 17m. P.M.; he is nearly at the same distance from the Pole Star that Rogulus is from that star, and he is 11 degrees E. of Regulus. On the last day he sets near the W. by N. point of the horizon, at 8b. 34m. P.M.; he is about 5 degrees farther from the Pole Star than Regulus is from that star, and he is 8 degrees W. of Regulus. On the 23rd day he will be a little E. of Regulus; on the 24th day he will be I degree S. of that star; and by the 25th he will be a little W. of it.

Venus, on the 1st day, rises near the N.E. by E., at 1h. 36m. A.M.; she is in the constellation of Taurus, and situated about 3 degrees south of the line, joining the Pleiades and Aldebaran. On the 15th day she rises in N.E. by E., at 1h. 26m. A.M.; an imaginary line from the Pole Star, through Capella, and continue 25 degrees from the latter star, is nearly the place of Venus; she is also about 9 degrees from Aldebaran, and 15 degrees from 7 Orionis. On the last day she rises in the N.E. by E., at 1h. 35m. A.M., and she is situated nearly in a line joining 7 Orionis and Castor, being 17 degrees from Castor, and 22 degrees from γ Orionis. The star of the third magnitude, about 6 degrees S.W. of Venus, is γ Geminorum.

Mars on the first day sets in the N.W. by W. at 9h, 42m. P.M.; on the last day he sets at 8h. 26m. P.M., and be is about 5° E. of Regulns; on the 15th day he was about 16° E. of Regulus.

The following is the position of the Constellations that are rising; on the meridian; and setting on the 1st day at midnight:-

Constellations Rising.	Constellations on the Meridian.	Constellations Setting.
A part of Anriga in N. by	The head of the Lynx 22 degrees above N. horizon	
	Camelopardalus 40° de-	Leo Minor in N.W.
by N. A part of Aries in E.N.E.	grees above N. horizon Draco, between Polaris and the Zenith	Leo in N.W. by W.
Aquarins 20° high above S.E.	Lyra, in the Zenith and a little S. of it	Virgo in W.
Capricornus 15° high above	The Milky Way 45 degrees	Libra 15° above S.W.
S.E. by S. Rump of Sagittarius in S. by E.	above S. horizon Head of Sagittarius 15 de- grees above S. horizon	Scorpio in S.W. by S.

ASTRONOMICAL OCCUPRENCES IN UITY

		11011tOHOMICA	d OCCULRENCES	IN JULI.								
	PLAN	ETS.		Occultation of Stars by the Moon.								
Names.	Time of passing the Meridian or Southing, on the 15th. day.	When near the Moon.	Distance from the Moon North or South.	Names of the Stars.	Time of disappearance and re-appearance of the Star.	At the dark or bright limb of the Moon.						
Mercury . , , Venus ,	н. м. 1 43 р.м. 9 24 а.м.	D. H. M. 25 10 23 P.M.	DEG. 4 North	α Virginis . }	D. H. M. 2 8 13 P.M. 2 9 28 ,,	Dark Bright						
Mars .	1 24 р.м.	24 10 17 "	6 North	» Scorpit : }	5 10 55 P,M. 5 11 36 ,,	Dark Bright						
Jnpiter	8 51 A.M.	19 0 58 а.м.	2 North	- 13	0 11 00 ,,	Digit						
Saturn	2 40 ,,	12 0 24 ,,	6 South									
Uranus .	5 23 ,,	15 0 23 ,,	2 South									

July 29tb. 2h. Mercury at his greatest East elongation, being 27° East—(See September.)
July 16th. 2h. 37m. A.M., Jupiter's 1st. Satellite disappears at the distance of nearly half of his diameter from him on the West side.
July 1st. 9h. A.M., the Sun at the greatest distance from the Earth during the year being 96 millions, 590 thousand and 90 miles from the Earth—(See January.)



JULY was named Julius by Marc Antony, in compliment to Julius Cæsar. The Saxons called it Hew-Monat, or Hey-Monath, because in it they generally mowed, and gathered in their hay; it was also called Maed Monath, because at this season the meads are covered with bloom.

July 1 is the Anniversary of two important events-the Battle of the Boyne, in 1690, at which both James II., and William III., were present; and the Battle of the Nile, in 1780, the result of which was so brilliant, that Nelson said victory was not a sufficient name for it.

Churchill thus glances at the superstitious notions about rain on St. Swithin's Day, (July 15):-

July, to whom the Dog Star in her train, St. James gives oysters, and St. Swithin rain.

Gay, in his Trivia, mentions:-

How if on Swithiu's Feast the welkin low'rs, And every penthouse streams with hasty show'rs, Twice twenty days shall clouds their fleeces drain, And wash the pavements with incessant rain."

And wasu two posts.

There is, too, an old proverb:
St Swithin's Day, if thou dost rain,
For forty days it will remain:
St. Swithin's day if thou he fair,
For forty days 'twill rain na mair.

(At what it rains on St. Sw

There is a quaint saying, that when it rains on St. Swithin's Day, it is the Saint christening the Apples. In some church books, there are entries of gatherings of " Sainte Swithine's farthyngs" on this day. St. Swithin was Chancellor of the Exchequer in the time of King Ethelbert, and the great patron saint of the Cathedral and City of Winchester; in the former is shown a large sculptured stone, which was long believed to cover the remains of the Saxon Saint, but this was disproved in 1797, by the finding of a complete skeleton beneath the stone; and the skull of St. Swithin is known to have been deposited in Canterbury Cathedral: his shrine was formerly kept in a chapel behind the altar in Winchester Cathedral.

With respect to "Rain on St. Swithin's Day," Mr. Howard, the meteorologist, observes: "The notion commonly entertained on this subject, if put strictly to the test of experience at any one station in this part of the island, (London), will be found fallacious. To do justice to popular observation, I may now state, that in a majority of our Summers, a showery period, which, with some latitude as to time and circumstances, may be admitted to constitute daily rain for forty days, does come on about the time indicated by this tradition: not that any long space before is often so dry as to mark distinctly its commencement."

A showery disposition in the air has certain tokens, of which the frequency of the Rainbow is one. All showers, however favourable their position with respect to the sun, do not, however, produce equally marked and beautiful Rainbows:

O arch of promise, seen in liquid skies!
With glittering band of many coloured raies
In harmoule all blending. Il ow mine eyes
Love to observe thee. As these showerie daies,

Changing and many weathered, sometimes smile
And flash short sunshine through black clouds awhile.
Then deepening dark again, they fall in raine,
So is it pleasant now to pause and view,
Thy brilliant sign in clouds of waterie bue,
And know the storm will not return againe.

St. James's Day (July 25th), was formerly observed by the distribution of food to such as chose to demand it. On St. James's Day (old style) oysters came in in London; and there is a popular notion, like that relating to geese on Michaelmas Day, that whoever eats oysters on that day, will never want money for the rest of the year. Yet, this does not accord with another popular conceit, in Butter's Dyet's Dry Dinner, 1599: "it is unseasonable and unwholesome in all months that have not an R in their name to eat an oyster."

Our artist has depicted a beautiful scene of noontide leisure, an episode in the life of "Illustrious Summer." Bathing, sailing, fishing, and all kinds of water frolics, are now in high season. Thomson gives us a life-like pieture of the first:-

Cheer'd by the setting heam, the sprightly youth
Speeds to the well-known pool, whose crystal depth
A sandy bottom shows. Awhile he stands
Gazing th' inverted handscape, half afraid
To meditate the hlue protonul below;
Then plunges headlong down the circling flood.

Effuses, on the pleas'd spectators round.

Such a scene, too, as the Poet of Nature sings, is here:

Silich à scene, von.

The brook ran bubbling by, and siching weak,
The brock ran bubbling by, and siching weak,
The breeze among the bending willows play'd.
The kind refresher of the summer heats;
The kind refresher of the summer heats; Warmin their chee', the sultry season glow'd, And, roll'd in losse array, they came to bathe Their ferven timbs in the refreshing stream.

Even from the body's purity the mind their ferven in Receives a secret, sympathetic aid.

The Fishing at this time of year, that is to say, Perch and Trout fishing, is, perhaps, the best of any fishing that the circle of the season produces. "The witty, companionable, and gentle Gay," who often tried his art to "tempt the tenant of the brook," gives this poetical picture of the fly-fisher :-

He shakes the boughs that on the margin! His gandy vest, his wings, his horns, and

Which o'er the stream a waving forest throw, When, if an insect fall (his certain guide), He gently takes lim from the whirling tide. Examines well his form with curious eyes,

That nature seems to live again in art.

Sir Henry Wootton, Provost of Eton College, says Walton, was "a most dear lover and a frequent practiser of the Art of Angling, of which he would say, Twas an employment for his idle time, which was then not idly spent, 'for Angling was, after tedious study, a rest to his mind, a cheerer of his spirits, a diverter of sadness, a calmer of unquiet thoughts, a moderator of passions, a procuror of contentedness,' and 'that it begut habits of peace and patience, in those that professed and practised it." I.

JULY.

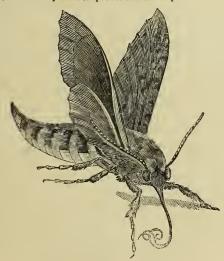
During this month those birds sing only which breed late. The young birds of the earlier broods begin to warble in a soft tone, or to record, as it is termed. The quail calls; young partridges fly; towards the end of the month the enckooleaves us; swallows and martens congregate, and swifts begin to depart.

Insects are very abundant—ants, flies, beetles, butterflies and moths abound. In fact, we have now arrived at the time when the most spleudid of all the order of insects, consisting of the moth and butterfly tribes, are becoming numerous. Who has not seen the elegant butterfly fluttering over flowers, which they frequently excel in splendour of colour, and at length resting on them with a touch so light as not to appear to be resting there? Who has not seen them, whilst reposing on the flower, opening and shutting their beautiful wings, alternately erecting and depressing their long and sfender antennæ, popularly called horns? and who has not seen the beautiful apparatus by which they extract the nectar from the flowers? We feel assured that there are few among our readers who bave not noticed all these things, and who have not been struck with the elegance of these beautiful creatures.

All butterflies and moths proceed from caterpillars, which afterwards change into chrysalides, out of which after a certain time proceeds the perfect insects. The femalo butterfly deposits her eggs upon such substances as are proper to nourish the caterpillars which proceed from them; thus the common cabbage butterfly places them on cabbage—(See last month): the peacock butterfly on nettles: the swallow-tailed butterfly on femnel or rue; the atalanta butterfly on nettles, &c.—(See next month). These eggs are simply attached by some glutinous secretion, to leaves or stems; in the same way are the eggs of moths placed, except that they are inclosed in down.

The distinguishing characteristics of butterflies are that the horns terminate in a small knob, and the wings, when the insect is at rest, are so placed that they meet upwards. The species of butterflies are so astonishingly numerous, * that it is found necessary to divide them into different sections. The largest of the genus are termed knights or chiefs, and are divided into Greeks and Trojans, and named from the principal heroes of the Iliad. The Trojans are distinguished by red coloured spots on each side near the breast; and are generally dark coloured. The Greeks have no red marks on the breast, and their colours are generally more brilliant. In our pictorial illustrations of last month we have represented two of those insects, Arion and Artaxerxes, as appearing then, and which will continue to appear in this month. In our engravings of next month will be found represented the swallow-tailed butterfly, which then appears, also with its caterpillar and chrysalis.

Butterflies and moths are divided into three distinct genera, viz.—Butterfly, Sphinx, and Moth. In the last month we have spoken of one species of the moth tribe, and we now proceed to speak of that of the sphinx.



SPHINX MOTH.

The Sphinx or hawkmoths are a genus distinguished by the antennæ or horns, tapering at each end, and which are generally short in proportion to the animal; and by the thickness of their bodies, which in most terminate in a point as is seen in the engraving above.

There are nearly two hundred different species of this genus; they fly about only in the morning and evening; they are slow on the wing, and often make a humming noise. They extract the nectar of flowers. The name of Sphinx is applied on account of the posture assumed by the caterpillars of the larger species, which are often seen with their fore parts risen from, and the rest of the body applied flat to the surface on which they are situated, an attitude much resembling the Egyptian Sphinx. Many of the species are of great beauty and elegance. Most of these caterpillars descend a considerable depth beneath the surface of the

* Latreille has described above 1800 species in the Encyclopedic Methodique.

ground, when they are about to change into the chrysalis state, and after lying, in some species a few weeks, in others many months, the chrysalis, by the motions of the included animal forces itself up to the surface, and the complete insect appears in its perfect form.



SPHINX MOTH .- OCELLATA.

The above engraving is that of the sphinx occllata, in an attitude characteristic of moths generally.

The wings are angular, and the upper ones are brown, as also is the body, the former with various shades; the lower wings are of a bright rose colour, each marked with a large black oval with a blue interior and black centre. This insect proceeds from a green caterpillar of a rough surface; marked on each side by seven oblique yellowish white streaks, and one other near the head nearly horizontal; and it is furnished with a horn at its tail. It is chiefly found on the willow; in the month of August or September it passes into the chrysalis state, which is represented in the annexed cograving.



And the complete insect emerges from this state in the month of June or July. The Sphinx Atropos, or the death's head moth, may be expected to be found this month. This is the most remarkable and the largest of this genus of moths. It is described by Dr. Shaw as follows:—"The upper wings are of a fine dark grey colour, with a few slight variations of dull orange and white; the under wings are of a bright orange colour, marked by a pair of transverse black bands; the body is also orange coloned, with the sides marked by black bars, while along the top of the back, from the thorax to the tail, runs a broad blue-grey stripe; on the top of the thorax is a very large patch of a most singular appearance, exactly resembling the usual figure of a skull, or death's head, and is of a pale grey, varied with dull ochre and black." When this insect is disturbed it emits a sound something like the squeaking of a mouse; and from this circumstance, as well as from the mark above mentioned, it is held in much dread by the ignorant in several parts of Europe, its appearance being looked upon as an ill omen of approaching fate, similarly to the effect of the cry of the bittern as described in March.

The caterpillar of this insect is often sought after, and, we shall, therefore, be particular in its description. It is sometimes nearly five inches in length, and, being of a proportionate thickness, it surpasses every other European insect of its kind, and is very beautiful; its colour is a bright yellow; the sides are marked with seven broad bands of a mixed violet and sky-blue colour; the tops of these bands meet on the back, and are varied on that part with black specks; on the last joint of its body is a horn, hanging over the joint, of a rough surface, and of a yellow colour. The favourite food of this caterpillar is the potatoc and the jessamine; it is principally found on the former. It changes into the chrysaliss state in the month of July or August, and the moth appears in the following June or July.

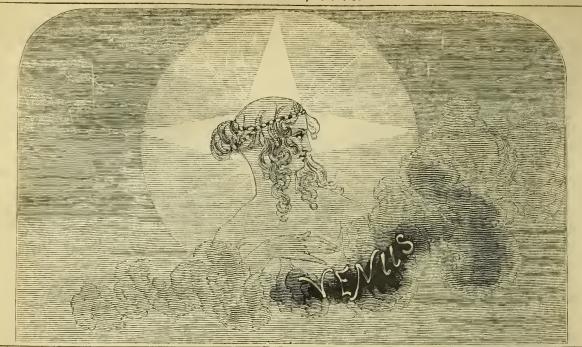
The Privet Hawk-moth.—The wings are entire, the lower ones red, with three black bands; the abdomen is red with black belts. The caterpillar will be found on Privet, and is of a green colour, with oblique lateral streaks, which are of a black before, and white behind; the tail is four-toothed.

Those curious vegetable substances of the fungus tribe may be expected this month. The following is one of that species generally found growing on trees.



FUNGUS HYDNUM.

The fungi form a numerous tribe of vegetable bodies, differing in firmness from a watery pulp of short duration, to a leathery woody texture, often very permanent. They cannot properly be said to have any herbage, much less anything like leaves or flowers.

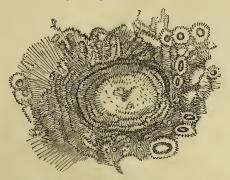


1.	. 1	***		1	S	IN.		11	3	foon			Hie	h Wa	ter at	Lon-	Eou	ation	1
1 5	D	D	ANNIVERSARIES, OCCURRENCES, AND FESTIVALS.		ises-R.	De			ses-R.	1	ouths.	Age		don B	ridge		of T	Time.	Day of the Year
-	-			S		tion	North	Se	ts-S.	H.				rning.	Afte	moon M.	A M.	.dd.	
	1	S	Lammas DayLammas Day, is now only remark-	H.	25 R	18	4	11	26 s	6	53	n. 9	7.	м. 29	7	57	6	3	213
		S	able as a day of term for some purposes. It was one of the great festival	7	44 ^s	17	40			7	47	10	8	28	9	8	5	59	214
	3	M	days of our heathen ancestors. Lammas scens to have heen held as a day of thanksgiving for the new fruits of the earth. It was observed with hread of	1		17	94	0	rning: 12 S	8	45	11	0		10	23	5	55	215
	- A N	77	new wheat; and there was a custom in some places at no distant period for tenants to he hound to bring in wheat of the new crop to their lord on or	17	28 ^B	17	34	1	_	0	45	111	13	46	11	40			016
		TU	before this day.	7	41	17	18	1	8 s	1,9	40	12	11	2	11	40	5	50	210
	5	W	Oyster season begins—Fenelon born, 1651	4	31 ^R	17	2	2	15 s	10	45	13	١.		0	11	5	44	217
			Ben. Jonson died, 1637—Earl Howe died, 1799	7	38 s	16	46	3	30 s	11	45	14	0	42	1	-9	5	38	218
		F	Mercury sets at 8h. 7m. P.M., in the W. by N.	4	35 E	16	29	4	$50^{\rm s}$	Mo	ming.	0	1	37	2	2	5	32	219
	- 11	S	Venus rises at 1h. 44m. A.M.	7	$34 \mathrm{s}$	16	12	Afte	ernoon.	0	43	16	2	26	2	50	5	24	220
	9	S	9TH SUNDAY AFTER TRINITY	4	38R	15	55	8	21^{R}	1	39	17	3	14	3	36	5	16	221
1	0	M	St. Lawrence—Assassinated by the soldiers of the	7	31 s	15	38	8	49 R	2	34	18	3	58	4	20	5	8	222
1	1	$T_{\mathbf{U}}$	Emperor Valerian, and his hody roasted on a gridiron. The Church of the Escurial at Rome, dedicated to him, is built in the form of a gridiron	4	41R	15	20	9	19R	3	27	19	4	44	5	5	4	59	223
1	2	W	Grouse Shooting begins: see Natural History	7	27s	15	2	9	50R	4	19	20	5	27	5	50	4	49	224
1	3	Тн		4	44R	14	44	10	24R	5	11	0	6	13	6	35	4	39	225
		F	Jupiter rises near E.N.E. at 11h. 12m. P.M.	7	23 S	14	26	111	3 R	6	2	22	7	0	7	25	4	28	226
1	1111	S	Assumption—Mars sets at 7h. 46m. P.M.	4	46B	14	7	111	47R	6	53	23	7	55	8	27	4	17	227
	- 1	Š	10th Sun. Aft. Trinity—Bonaparte born, 1769	7	10 s	13	48	1 1		7	43	24	ó	7	a	47	1	6	228
li	7	M	Duchess of Kent born, 1786	1	49B	13	20	Mo	rning. 37 R	8	33	25	10	25	11	1	3	53	229
Ιî	8	Γυ	Beattie died, 1803—Twilight nearly ending	せっ	0	12	10	1	32R	9	21	$\frac{23}{26}$	11	42	11	3	3	41	230
li		TT		4	15°	10	50	1		10	21		11		Λ	40	3	07	021
	- 1	T'	Royal George sunk off Spithead, 1782	4	32"	12	30	2	29 ^R	10	=0	27	1	15	1	40		14	020
			Bloomfield died, 1823—Bernadotte crowned, 1810	1	110	12	31	3	30 M	10	52	28	1	4	1	2/	3	14	232
$\frac{1}{2}$		F	Battle of Bosworth Field, 1485	4	35 R	12	11	4	30 "	11	30	8	1	48	2	5	3	0	233
	2	S	Pompeii and Herculaneum buried by volcano, 63	7	7 s	11	51	Afte		After	noon		2	21	2	39	2	45	234
2	3	S	11TH SUNDAY AFTER TRINITY	4	59R	11	30	7	13 s	1	1	2	2	53	3	10	2	30	235
2	4	M	St. Bartholomew—St. Bartholomew was an apostle,	7	3 s	11	10	7	36 s	1	44	3	3	25	3	40	2	15	236
2	5 '	$\Gamma_{\mathbf{U}}$	hut there is no scriptural account of his lahours or death. The legend of the Romish Church represents him as preaching in the Indies, and con-	5	2 ^R	10	49	7	59 s	2	27	4	3	55	4	10	1	59	237
2	6	W	hut there is no scriptural account of his lahours or death. The legend of the Romish Church represents him as preaching in the Indies, and con- cluding his life by heing flayed alive by order of a brother of the king of Armenia. In memory of his death it was customary in the middle ages, to	6	59 s	10	29	8	24 s	3	11	5	4	26	4	41	1	42	238
2	7	Гн	distribute small knives amongst the people. The day has a horrible cele- brity in connection with the massacre of the Protestants at Paris in 1572.	5	5 R	10	8	8	53 s	3	58	6	4	56	5	13	1	26	239
2	8	F	St. Augustine	6	55 S	9	46	9	26s	4	47	7	5	30	5	48	1	8	240
2	9		St. John Baptist beheaded	5	8R	9	25	10	6 s	5	38	5	6	8	6	29	0	51	241
3	0	S	12TH SUNDAY AFTER TRINITY	6	51 s	9	4	10	57 S	6	33	9	6	54	7	21	0	33	242
3	1	M	Length of day, 13h. 36m.	5	12R	8	42	11	56 s	7	30	10	7	52	8	30	0	15	243
-		-	RIGHT ASCENSE	ON	IS AN	D	DECI	LINA	TIONS	3 0	F T	HE	PLA	NET	s.				

0													
				RIGHT	ASCEN	SIONS AL	ND DEC	LINATION	S OF 7	HE PLAN	ETS.		
Times of changes of the Moon, and when she is at her greatest distance	of	MBacı	RY	UKEV	в.	MAK	38.	JUPIT	ER.	SATU	RN.	USA	NUS.
(Apogee,) or at her least distance (Perigee,) from the Earth, in each Lunation.	M.	Right Ascension.	Declina- tion North.	Right Ascension.	Declina- tion North.	Right Ascension.	Declina- tion North.	Right Ascension.	Declina- tion North.	Right Ascension.	Declina- tion South.	Right Ascension.	Declina tion North.
Full Moon 7d. 6h. 0m.A.M. ThirdQuarter 13 10 51 P.M.		10h. 27m.	7° 38′ 5 34	6h. 22m.	22° 22′ 22 16		15° 19'	4h. 36m.		22h. 6m. 22 5	13° 21′ 13 29	0h. 53m. 0 53	4° 58′ 4 56
New Moon 21 11 25 P.M. First Quarter 29 10 19 P.M.	16	10 41 10 36	4 14 3 56	7 13 7 39		10 15	13 9 12 1	4 43 46	21 37	22 2	13 37 13 45	0 53 0 53	4 54 4 52
Perigee 7 1 ,, Apogee 21 10 A.M.	21 26	10 25 10 9	7 4	8 4 8 29	20 25 19 18	10 27 10 39	9 40	4 49 4 52	21 42 21 46		13 53 14 1	0 52 0 52	4 49 46

AUGUST.

In the month of June we gave as correct a representation of the Moon when full, as the size of our drawing would permit. The several markings of the Moon have been very accurately observed and laid down upon a map, by M. M. Mädler and Beer. To the most remarkable cavities and mountains names have been given, and we have copied from that map, one well known spot called "Tycho," and the following is its representation:



TELESCOPIC APPEARANCE OF A SPOT ON THE MOON.

Those streaky radiations or divergent streams of light seen in the full Moon, also appear round many of the spots, and they appear round Tycho; they have been said to be streams of lava, and it must be admitted they have such an appearance, but they run over hills and valleys for miles.

The spot Tycho consists of a huge mountain in the centre of a vast valley, which is surrounded by a ring of great extent; in the engraving this spot is represented as it appears at the time of full Moon, and, consequently, without shade; at all other times it is variously shaded according to the different angles, that the Sun's light falls upon it, causing shadows of different lengths. It will be readily seen from this, that the surface of the Moon, viewed and watched through a telescope, presents phenomena of the utmost interest.

The increase in the apparent size of the Moon on the same day when in the horizon, to what it appeared to be when high in the heavens, is entirely a visual deception. To the naked eye, she appears larger when in the horizon than at any other time, although she may be, at such time, 4000 miles farther from us, than she was when high.

HORIZONTAL MOON.

The commonly received explanation of this phenomenon was first given by Descartes, and may be stated as follows:-The opinion which we form of the size of a distant object, depends a good deal on its distance; and we judge distance by a comparison with other bodies. When the Moon is high in the heavens there is no interposing object, or one near with which we can compare her. In consequence of the absence of intermediate objects, we suppose her to be very near; but when she is near the horizon, we are used to observe a large extent of land lying between us and objects near the horizon, at the most distant part of which the sky begins to appear; we, therefore, suppose the sky, with the Moon, to be at a great distance. Now, let all the intermediate objects be concealed from view, then the Moon does not appear so large. Let the Moon be viewed through a tube which allows her alone to be seen, and the illusion disappears. And so it will, if viewed through a piece of smoked glass; care must however be taken to place the eye, so that no body be visible but herself. Viewed through a telescope, and correctly measured, it is found not to be really larger. A full Moon in the horizon appears to be of an oval form; this is owing

to the atmosphere at the lower part being more dense than that at the upper, and in consequence the lower part of the Moon appears to be more thrown upwards than is the upper, and, therefore, her vertical diameter appears to be shortened. This perhaps will be better understood, by the knowledge of the fact, that every ray of light which passes out of any medium to one more dense, is turned towards the Zenith. Every one must be aware that if they place a straight stick in water, that it appears to be bent in consequence of the different densities of the air and water; so also every rav of light from every heavenly body is similarly bent, till it meets the eye, and that heavenly body is seen in the direction of the last bend of the ray; this deviation from the true place is greater and greater the nearer the object is to the horizon; the difference of those deviations from two points near the horizon, separated by the diameter of the Moon, causes that oval form before referred to.

TIMES OF RISING AND SETTING OF THE PLANETS, WITH THE POINTS OF THE HORIZON INDICATED AT WHICH THEY RISE OR SET, WITH THEIR SITUATIONS RELATIVELY TO THE FIXED STARS NEAR THEM, ETC.

Mercury, on the first day, sets in the W. by N. at 8h. 29m. P.M.; he is situated about 5 degrees further from the Pole Star than Regulus, and about 9° W. of the latter star; on the 15th day he sets a little N. of E. at 7h 16m. P.M., and he is about 8° further from the Pole Star than Regulus, and he is 13° S.W. of the latter star; and on the last day he rises in the E. by N. at 4h. 21m. A.M., and is about 2° S. of Regulus.

Venus rises nearly in the N.E. by E. point of the horizon all the month. On the 1st day at 1h. 36m. A M., and she is situated nearly in a line joining γ Orionis and Castor, being 16° from the latter and 23° from the former; on the 15th day she rises at 1h. 57m. A.M., and she is 6° farther from the Pole Star than Pollux, being nearly in a line joining Pollux and Procyon, the little Dog Star. On the last day she rises at 2h 38m. A.M., and at this time an obtuse angled triangle is formed by Venus, Regulus, and Procyon, she being 11° from Regulus and 14° from Procyon, being N. of the line joining these Stars.

Mars sets in the W.N.W. on the first day at 8h. 25m. P.M., and he is situated about 4° E. of Regulus. On the 15th day he sets near the W.N.W. at 7h. 47m. P.M., and he is now 4° W. of Regulus. On the last day he sets at 7h. lm. P.M., in the W. by N. point of the horizon, and he will be found by imagining a line from the Pole Star drawn through the Pointers and continued till it meets another line about 14° W. of Regulus; the Planet is also 14° S.E. of β Leonis at this time.

Jupiter rises nearly midway between the N.E. by E. and the E.N.E. points of the horizon throughout the month. On the 1st day, at 11h. 52m. P.M. At this time he is situated in a line from Aldebaran to midway between Capella and $oldsymbol{eta}$ Aurigæ, at the distance of nearly 7° from Aldebaran. On the 15th day he rises at 11h. 5m. p.m., and he is situated nearly midway between Aldebaran and $oldsymbol{eta}$ Tauri, and he is also near the Moon (See below). On the last day he rises at 10h. 9m. P.M. and he is situated a little S. of the line joining Aldebaran and $oldsymbol{eta}$ Tauri, being 710 from the latter, and 910 from the former.

Saturn rises in the E.S.E. point of the horizon throughout the month. On the

first day at 8h. 34m. P.M., and on the last day at 6h. 33m. P.M. The following is the position of the Constellations that are rising; on the meridian; and setting on the 1st day at midnight:

Constellations Rising.	Constellation on the Meridian	Constellations Setting.
A part of Gemini in N.N.E.		
Taurus in N.E. by E.	Cepheus between the Zenith and Polæris	by N.
Pleiades 10° above E.N.E.	Cygnus near the Zenith and S of it	Boötis in W.N.W.
Cetus from E. to S.E.	Delphinus 55° above S horizon	Libra in W. by S.
	Capricornus 20° above S	Sagittarius in S S.W.
	rown (Corona Borealis) 30°	above W. by N.

ASTRONOMICAL OCCURRENCES IN AUGUST. OCCULTATION OF STARS BY THE MOON. Time of Passing Time of the Meridian or Southing, At the dark or Distance from the disappearance and re-appearance of the Star. When near the Names of the Moon North or bright limb of the Names. Moon. Stars. on the South. Moon. DEG. м. 14 р.м. 4 P.M. Bright Mercury 21 Piseium Dark Venue 10 0 A.M. 10 0 20 A.M. Bright Mara 0 39 P.M. 22 5 P.M. 5 North δ3 Tauri 15 Jupiter Dark 12 A.M. 3 North 84 Saturn 0 30 A.M. 6 South 3 20 A.M. Uranus 2 South

August 1st, 7h. A.M., Mercury at his greatest distance from the Sun.
August 9th, 7h. 23m. A.M., Mars at his greatest distance from the Sun.
August 1lth, 8h. A.M., Mercury stationary with respect to the fixed stars.—(See September.)
August 25th, 9h. 35m. A.M., Mercury in inferior conjunction with the Sun.—(See September.)
August 8th, 2h. 47m. A.M., an Eclipse of Jupiter, 1st Satellite; on the W. side of the planet, at the distance of \$\frac{2}{3}\$th of his diameter.
August 15th 3h. 1m. A.M., an Eclipse of Jupiter, 2nd Satellite, on the W. side of the planet, at the distance of 1 of his diameter.
August 6th, 1h. 24m. A.M., an Eclipse of Jupiter, 3rd Satellite, on the W. side of the planet, at the distance of 2 of his diameters.



THE HOST SURROUNDED BY HIS FAMILY, RECEIVES THE QUEEN OF HARVEST FOLLOWED BY THE HOCK-CART AND CEREAL PROCESSION.

August is named from Octavius Cæsar, better known as Augustus, when the Senate, to pay the same tribute to him as had already been rendered to Julius Cæsar, deereed, that to commemorate his many triumphs, should from him take the name of Augustus, which we call August. The Saxons called it Wead-Monat-wead, signifying a covering or garment, and thus they expressed the beauteous clothing of the ground in harvest,

Gule of August, or Lammas Day, is variously explained. Gule, from the Celtie or British Wyl, or Gule, significs a Festival or Holiday, and explains Gule of August, to mean the holyday of St. Peter and Vineula in this month, when the people of England, in Roman Catholie times, paid their Peter penee. Lammas is, by some, derived from Lamb-masse, because, on that day, the tenants who held lands of the Cathedral church in York, which is dedicated to St. Pcter and Vincula, were bound, by their tenure, to bring a live lamb into the church at high mass; others trace it to the Saxon loaf-masse, or bread-masse, from the first-fruits offering referred to in the Calendar, (Aug. 1.)

The Anniversary of the Accession of the House of Brunswick to the British Throne, August 1, (1714), was formerly celebrated; "Dogget's Coat and Badge" rowed for on this day, annually, on the Thames, was bequeathed by Thomas Dogget. the comedian, in commemoration of the above event.

The Transfiguration, (Aug. 6,) festival was abolished, in England at the Reformation; but is still celebrated with much pomp and solemnity in the Greek and Latin churches.

The Assumption of the Virgin Mary, (July 15,) was formerly a great Festival; and, upon this day, it was customary to implore blessings upon herbs, plants, roots, and fruits. Wordsworth has some exquisite lines on the eve of this Festival-meditations amid the silent splendour of "the midnight moon," in Italy:

s amid the silent spiendour of "the midnight in The watchman on the battlements partakes. The stillness of the soleun hour; he feels. The silence of the earth, the endless sound of flowing water soothes him; and the stars, Which in that brightest moonight well nigh control, Searee visible, as in the utnost depth of youder sapphire infinite are seen, Draw on with elevating influence. Toward eternity, the attempered mind. Musing on worlds beyond the grave he stands, And to the Virgin Mother silently. Breathes forth her bymn of praise."

St Roch's Day, (Aug. 16,) was formerly celebrated as a general Harvest-Home in England. Sir Thomas Overbury, (1630,) under the Franklin, says, "he allowes of honest pastime, and thinkes not the bones of the dead anything brnised, or the worse for it, though the country lasses dance in the churchyard after even-song. Rock Monday, and the wake in summer, shrovings, the wakeful ketches on Christmas Eve, the hoky, or seed eake, these he yeerely keepes, yet holds them no reliques of Popery."

Harvest-Home, from the Saxon heerfest, q.d. herb-feast, is defined by Ash, to be Harvest-Home, "the last load of the harvest, the feast at the end of the harves

a song sung at the end of the harvest; the opportunity of gathering harvest treasure." With us, the festival is, doubtless, as old as agriculture. Thomson has left us this beautiful description of its rustic joys :-

Now gather'd in, heyond the rage of storms, Sure to the swain; the eireling fence shut up; And instant Winter's utmost rage defo'd, While, loose to festive joy, the country round Laugbs with the loud sincerity of mirth, Shook to the wind their cares. The toil-struct youth, which the storm of the country round the country of the countr

By the quick sense of music taught alone, Leaps wildly graceful in the lively dance.

That, with to-morrow's sun, their annual toil Begins again the never-ceasing round.

Harvest-Home customs are too various for us to detail. "The Queen of Harvest," whom our artist has portrayed, was anciently brought home with the last load of eorn; though an image was formerly thus richly dressed up, to represent the Roman Ceres, as recorded by Hentzner, in 1598, in a Harvest-home at Windsor. Here, too, are the pipe and tabor, the latter taken from the timbrel of Miriam, as an accompaniment to her song and victory after the passage of the Red Sea. In the distance is seen the Hock Cart, "with all its gear," commemorated by Herrick :-

Come, sons of Summer, hy whose toile We are the Lords of Wine and Oile, By whose tough labours and rough hands, We rip up first, then reap our lands, Crown'd with the ears of corne, now

And to the pipe sing Harvest-home;

Come forth, my Lord, and see the Cart, Drest up with all the country art.

About the Cart, heare how the rost Of rural younglangs raise the shout; Fressing before, some coming after, Those with a shout, and these with laughter.

Bloomfield has left us a picture of Harvest-Home in Suffolk, where the foremost man in the field was honoured with the title of "Lord," and at "the Horkey" or Harvest-Home Feast, he collected money from the farmers and visitors, to make a "frolic" afterwards, called the "largess" spending; but in Bloomfield's time, this eustom was going fast out of use. In his ballad-the Horkey, he sings :-

Home came the jovial Horkey Load, Last of the whole year's crop;

And Grace among the green houghs rode,
Right plump upon the top.

Leasing or Gleaning, dates from three thousand years and npwards, as testified by Ruth. "If it were not then first instituted, it was secured and regulated by an especial ordinance of the Almighty to the Israelites in the wilderness, as a privilege to be fully enjoyed by the poor of the land, whenever their triumphant armies should enter into possession of Canaan. By this law, in the field where the corn grew, 'clean riddance' was not to be made, the corners were to be left unreaped, and even the forgotten sheaf was not to be fetched away by the owner, but to be left for the 'poor and the stranger, the fatherless, and the widow.

St. Bartholomew's Day (August 24), is now kept as a holiday at the Bank, and eertain Law Offices. Many centuries since, labour was forbidden on this day; and subsequently, only Harvest-work was allowed by law.

AUGUST.

Young broods of goldfinches are now seen; lapwings congregate, as also do linnets; the nuthatch chatters; the wryneck departs; the aberdevine, the mountain finch, the crossbeak, the turnstono, and the knot arrive; and birds reassume their Spring notes.

The nuthatch is six inches in length. A black line passes over each eye from the bill, extending down the side of the neck as far as the shoulder; all the upper part of the body is of a fine blue-grey colour; the checks and chin are white; breast and belly of a pale orange colour. The aberdevine is in length nearly five inches. Top of the head and throat, black; over each eye there is a pale yellow streak; back of the neck and the back yellowish olive; runny yellow; under parts greenish yellow. The crossbeak is nearly seven inches in length. It will be readily distinguished by the upper and lower mandibles crossing each other at the points; its general colour is reddish on the upper parts; belly white. The turnstone is eight inches in length—and it is a prettily variegated bird. The ground colour of the head and neck is white, with small spots on the crown and hinder parts; a black streak crosses the forchead to the eyes.



We have above given an engraving of black grouse, the male and the female, though at this time, or before, the sexes have separated and live in flocks apart.

The male is a bird of considerable size, being in length nearly two feet, and its stretch of wings is nearly three feet; and when in prime condition, which is during the early parts of the Winter, it weighs from three to four pounds. The bill is short and very strong; the eyes vary in different lights, from hazel to blue; over the eye is a naked space of very bright scarlet colour, and granulated; under the eye there is a similar one of a white colour. The one above the eye is much dilated in the breeding season, and frequently extends to the top of the head. The patch under the eyes, in old birds, is very conspicuous, but in young birds it is searcely visible till after the second year. The general colour of the plumage is a deep black, with rich reflections of purple, blue, and bronze green. The blue is finest on the neck, and the green on the feathers of the tail. The under part is black with the exception of the under tail coverts, which are white. A spot on the wing, the tip of the bastard wing, the bases of the quills, except the first four, and the tips of some other quills are also white; forming a bar of white across the wings, as seen in the engraving. The wings are broad; and the tail consists of sixteen feathers, the external ones a little produced, and curling outwards, so as to give them that peculiar form as seen above. The female, as will be observed, differs very considerably in size, and also in colour; the general colour being brown, deeper on the back than any other part, and mottled all over with black; the tail is not so much produced, and the forked form is scarcely perceptible. The weight is about two pounds four or five ounces.

In Autumn and Winter the males live in flocks and at peace, but on the return of Spring they assemble in great numbers, on the tops of high and heathy mountains; they having put on the rich glosses of their nuptial plumage, begin to fight for superiority, as is the case with all polygamous birds. This fight continues with great bitterness till the vanquished are put to flight. The victors then perch on the tops of high trees or other elevated spots, and by crowing and clapping their wings, give notice to the females, who soon resort to them. It is said that each cock has two or three hens, which seem particularly attached to him. The nest is made on the ground; the female does not perch till her brood are able to perch with her. During this time the males remain in the close vicinity of the females, watching them and their broods with great attention; until they

are matured, when he joins the other males for the season of celibacy.

The young cocks at first resemble the mother, the external distinctions of sex not appearing till the end of Autumn.



SWALLOW-TAIL BUTTERFLY.

Insects are very numerous; the above is one of great beauty; it is of a brilliant yellow, with black spots along the upper edges of the larger wings; all the wings are bordered with a deep edging of black, decorated by a double row of crescent-shaped spots, of which the lower row is yellow, and the upper bluc. The under wings are tailed, and are marked at the inner angle with a round red spot, edged with blue and black.



THE LARVA OR CATERPILLAR OF THE SWALLOW-TAILED BUTTERFLY.

The caterpillar is of a green colour, encircled with numerous black bands, spotted with red, and is furnished on the top of the head with a pair of short tentacula of a red colour—which it occasionally protrudes from that part. It feeds principally on fennel, and it is sometimes found on rue; in the month of July it changes into the chrysalis state.



THE CHRYSALIS OF THE SWALLOW-TAILED BUTTERFLY.

The colour of the chrysalis is of a yellowish-grey; it is generally affixed to some part of a plant, or other neighbouring substance; and from this state, in this month, the complete butterfly, as represented and described above, proceeds.

The Peacock butterfly is very common. The wings are angular, spotted with black, and on each there is a large blue eye. The caterpillar from which it proceeds is black, with many white spots. It feeds principally on the nettle, and changes into the chrysalis in July, and the butterfly appears in August. Mr. White, in his History of Selborne, records an instance of seeing this insect on March 6th. We now proceed to describe the Atalanta butterfly. Its wings are black, upper pair with a red band and white spots, the lower ones bordered with red behind. The caterpillar from which this beautiful insect proceeds, is brown and shiny, and feeds on nettles—it changes into a chrysalis in July; the butterfly appearing in August.



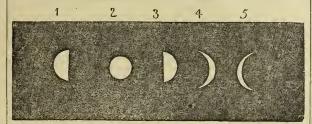
M	l W		1	Su	N. (A1	OON.	High Wa	ter at Lon-	Equation	<u> </u>
D	Ď	ANNIVERSARIES, OCCURRENCES, AND FESTIVALS.			Declina-	Rises-R. Sets-S.	Souths. Age	don	Bridge.	of Time.	Day of the Year
-			H.	s-S.	tion North	B. M.	H. M D.	H. M.	Afternoon	M. S.	
1	T \mathbf{U}	Partridge shooting begins-St. Giles-St. Giles		13R	8 20		8 28 11	9 13		0 4	244
2	W	was a halive of tireece, and became Abbot of Nismes in 715. He literally	C .	44 s	7 59	Morning 1 6 S	9 27 12	10 37	11 20	0 23	245
3	Тн	oheyed the scriptural injunction by selling his patrimony for the benefit of the poor, and on one occasion gave his coat to a sick mendicant, who was	E 1	16 R	7 37	$\frac{1}{2} \frac{0}{23}$ s	10 25 13	11 54	11 -0	0 42	246
4	F	cured miraculously by putting it on. St. Giles thus became the patron saint of beggars and cripples.		40 s	7 15	3 44 s	11 99 14	$0 \ 25$	0 54	1 1	247
5	S	Mars rises at 5h. 26m. A.M., and sets at 6h. 48m.		20^{R}	6 52		11 22 14	$\begin{array}{c c} 0 & 23 \\ 1 & 21 \end{array}$	1 43	1 21	248
6	S			35^{s}		5 9 s	Morning.	$\begin{bmatrix} 1 & 21 \\ 2 & 8 \end{bmatrix}$	2 31	1 41	249
7						Afternoon.	0 18 16	_	3 15	0 1	250
8		Jupiter rises at 9h. 48m. P.M.	1.	23^{R}	6 8	/ 1/K	1 12 17	2 51	1 - 1	2 22	251
9	TU			29 s	5 45	7 47 1	2 6 18	3 37	3 57		252
10	77	William the Conqueror died, 1087	1 .	26 R	5 22	8 22 R	3 0 19	4 20	4 40	2 42	
10	TH	Mungo Park died, 1771		25 s	5 0	9 0 ^R		5 0	5 23	3 3	253
11	F	Thomson (Seasons) born, 1700		29^{R}	4 37	9 44 R	4 46 21	5 43		3 23	254
12	S	Length of the day 12h. 50m.		$20 \mathrm{s}$	4 14	10 33 ^R	5 38 (6 30	6 53	3 44	255
13	S	14TH SUNDAY AFTER TRINITY		32^{R}	3 51	11 27 R	6 28 23	7 20	7 50	4 5	256
14	M	Holy Cross—Moscow burnt, 1812		16 s	3 28	Morning .	7 17 24	8 28	9 10	4 26	257
15	Tυ	Saturn rises at 5h. 28m. P.M., and sets at 3h. 4m.	5 3	35^{R}	3 5	0 23R	8 4 25	9 51	10 31	4 47	258
16	W	Fox died 1806, aged 57 [A.M.	6	12^{s}	2 42	1 23 ^R	8 50 26	11 9	11 46	5 8	259
17	Тн	London and Birmingham Railway opened, 1838		38 R	2 19	$2\ 25^{R}$	9 34 27		0 15	5 29	260
18	F	Mercury rises at 4h. 8m. A.M.	6	7 s	1 55	$3 \ 26^{R}$	10 17 28	0 38	1 0	5 51	261
19	S	Venus rises at 3h. 34m. A.M., and sets at 5h. 34m.	5 4	42^{R}	1 32	4 29 ^R	11 0 29	1 18	1 3S	6 12	262
20	S	15TH SUNDAY AFTER TRINITY P.M.		2 s	1 9	5 34 R	11 43 0	1 55	2 10	6 32	263
21	M	St. Matthew the Apostle		45^{R}	0 45		Afternoon 1	2 25	2 42	6 53	264
22		New Post-office opened, 1829 [length		58 s	0 21	6 28 S	1 10 2	2 55	3 11	7 14	265
23		Porson died, 1808—Day and night of nearly equal		48R		6 57 s	1 56 3	3 26	3 42	7 35	266
24	Тн	Jupiter rises at 8h. 45m. p.m.	5 5	54 s	0 25	7 28 s	2 44 4	3 57	4 13	7 56	267
25	F	Mars rises at 5h. 21m, A.M.		51 R	0 48	9 7 S	3 35 5	4 29	4 47	8 16	268
26	ŝ	Saturn rises at 4h. 43m. p.m., and sets at 2h. 17m.		50 s	1 11	8 53 s	4 27 6	$\begin{bmatrix} \frac{1}{5} & \frac{1}{3} \\ \frac{1}{5} & \frac{1}{3} \end{bmatrix}$	5 24	8 36	269
27	~			55 R	1 35	9 48 s	5 22 7	- 44	6 6	8 57	270
28	M M			45 s	1 59		6 18 D	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	6 59	0 17	271
_		Sheriffs sworn—Length of day 11h. 48m.				10 50°		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8 10	9 36	272
29		St. Michael—Michaelmas Day.—A grand festival of the Romish and English churches, established 487, in honour of St. Michael	5 5	58 R	2 22	Morning.	7 14 9		9 38	9 56	273
30	VV	and all the Holy Angels.	0	41 "	2 45	0 13	8 10 10	8 54	9 38	9 30	270
		RIGHT ASCENSION	NS A	AND	DECLIN	NATIONS	OF THE PI	JANETS.			

and an the mory Angels	and all the Holy Angels.													
1	RIGHT ASCENSIONS AND DECLINATIONS OF THE PLANETS.													
Times of changes of the Moon, and when she is at her greatest distance	ys MERCUI	JRY. VEN	US.	MARS.	JUPITER.	SATURN.	URANUS.							
(Apogee,) or at her least distance	Right Ascension.	Declina- tion North. Right. Ascension	Declina- tion North.	Right Declina- tion North.	Right Ascension. Declina- tion North.	Right Ascension. Declination South.	Right Ascension. Declination North.							
Full Moon 5th. 1h. 16m. P.M.	1 9h. 55m. 1	10° 1′ 8h. 59m.	17° 39′ 10	0h. 54m. 80 12'	4h. 54m. 21° 50′	21h. 58m. 140 11/								
Third Quarter 12 11 42 A.M.	6 9 56 1	11 37 9 24	16 3 11	1 5 6 57	4 57 21 53	21 56 14 18	0 50 38							
New Moon 20 3 34 P.M. 1	1 10 11 1	11 45 9 48	14 15 11	1 17 5 41	4 58 21 56	21 55 14 25	0 50 34							
First Quarter 28 7 27 A.M. 1	6 10 36 1	10 19 10 12	12 18 11	1 29 4 24	5 0 21 58	21 54 14 32	0 49 4 30							
Perigee 4 11 P.M. 2	1 11 7	7 37 10 36	10 11 11	1 41 3 7	5 1 21 59	21 52 14 38	0 48 4 25							
	6 11 40	4 9 10 59	7 57 11	1 53 1 49	5 2 22 0	21 51 14 43	0 48 4 21							
NoteSepte	mber 23rd. at abou	out a quarter to 11 o'clo	ek a.m., the St	un will he on the Equa	ator, and, therefore, with	hout declination.								

SEPTEMBER.

MERCURY is a small Planet, but shines with a very bright white light, though, by reason of being always near the Sun, he is seldom to be seen with the naked eye. The times that he may be best seen in the present year, are the following :- On January 18th, he rises about one hour and a half before the Sun, and, therefore, for a few days before and after January 18th, at about 7 o'clock in the morning; on March 30th, he sets 1h. 53m. after the Sun, and, therefore, for a few days before and after that day, at about 7 o'clock in the evening; on May 16th, he rises at 3h. 34m. A.M , being about half-an-hour before the Sun only, so that the time is not favourable, but it is the best between March 30th and July 28th; on the latter day he sets at 8h. 45m. P.M., being about 55 minutes after the Sun has set. The next date is that of the 10th of this month, September, and it is by far the most favourable time during the whole year. The proper time for viewing him is about one hour before sunrise, between the 5th day and the 15th day; but even at these times, as he never occupies a dark portion of the heavens, it is necessary to know exactly where to look for him; on the 8th day of September he will be about one degree South of the star Regulus (to find Regulus see the month of March.) Before the 8th day he will be West of Regulus, and about 12 degree South of that star, and after the 8th day he will be East of Regulus, and about $1\frac{1}{2}$ degree South of it. With these directions the Planet will be easily found; and it will be much more easily seen at this time than in the evenings of March (the next best time to see him), in consequence of the strong twilight in that month. On November 22nd he will set about 55 minutes after the Sun, or, a few minutes before 5 P.M.; and lastly, for a few mornings, at 7 o'clock, after December 27th; on December 31st he will rise at about 61 A.M., being about 1h. 50m. before the Sun. At all other times during the year, he will either rise or set too near to the time of the Sun's rising or setting to be easily visible.

From what has preceded it is clear that Mercury, like Venus (See the month of May), is always in that quarter of the heavens near the Sun. His greatest angular distance from the Sun, or his elongation, is between 16° and 29°; the least elongation during the present year, is that of 17° 55', on the 11th day of this month; the greatest was 27° 12'. (See July.) When this Planet is at his greatest angular distance from the Sun, he is seen as a half-circle, and passing from this position behind the Sun, or on the opposite side of the Sun to that at which the Earth is, he appears like Venus more than a semicircle; and when he is in, above, or below, the straight line drawn from the Earth through the Sun to him, he would appear circular, and he is at that time at his superior conjunction with the Sun; when he appears on the other side of the Sun ho appears again semi-circular, and passing then from this position before the Sun, his illuminated portion has the form



DIFFERENT APPEARANCES OF MERCURY DURING THE YEAR.

of a crescent, and which, like Venus, becomes narrower and narrower, and is at its smallest dimensions, at the time when he is in, above, or below, the straight

line joining the Sun and the Earth, or at his inferior conjunction with the Sun. To those persons who have attended to the explanation of the phases of the Moon, these circumstances afford satisfactory evidence that he does not shine by his own light. The successive appearances of Mercury during the year, are represented in the accompanying engraving, and the days on which the illuminated portion of the Planet has these appearances are as follows:-

That marked	l, on			. January 18th;
,,	,,			. May l6th;
,,	22			. September 11th;
"	,,			. December 31st.
That marked	2, on			. March 6th;
,,	11			. June 20th;
,,	,,,			. October 7th.
That marked	3, on			. March 30th;
,•	"			. July 29th;
,,	,,			. November 23rd.
That marked	4, befo	re		. April 18th;
**	٠,			. August 25th;
"	,,			. December 11th.
And that man	rked 5,	after		. April 18th;
**		,,		. August 25th;
"		,,		. December 11th.

The scale upon which these are laid down, is the double of that used in the representation of the phases of Venus, and to compare the two together it is necessary to halve the size of the above.

During this month that phenomena in our latitude, and in corresponding latitudes in the Southern hemisphere, of the Moon rising for several nights at nearly the same time, instead of rising about 50 minutes later every night, occurs, and as it is beneficial to the farmer, it has been called the Harvest Moon. It is the more striking the nearer the time of full Moon happens, to the time of the autumnal equinox; now it happens in this year, that the full Moon is as far removed as possible from the time of the equinox, that is, from the 20th of the month; in fact, that day is the day of new Moon, and the Moon, instead of rising only by 15 minutes later every night, will rise nearly 30 minutes later; for instance, on the 6th day she rises at 6h. 48m., and on the next evening she rises at 7h. 17m.; therefore, the Harvest Moon of this year will be the least beneficial to farmers, by giving them the least light after sun-set that it is possible for her at this time to give The Moon following that called the Harvest Moon, is called the Hunters' Moon, and as it is removed but a little farther from the equinox than the Harvest Moon, it will be nearly under similar circumstances to that Moon, and, therefore, for several nights this year the Hunters' Moon will rise only about 35 minutes later night by night. (See time of Moon rising, October 5th, 6th, 7th, &c.)

Mercury, on the 1st day, rises in the E. by N. at 4h. 14m., A.M., and on the 15th day he rises midway between the E. by N., and the E.N.E., at 311.58m. A.M., and on the last day he rises in the East at 5h. 24m. A.M.; the directions for finding him are explained above.

Venus is still a morning star; she rises E.N.E., till near the end of the month, and in the E. by N. at the end. On the 1st day, at 2h. 42m. A.M.; on the 15th day, at 3h. 23m. A.M.; and on the last day, at 4h. 9m. A.M. On the 1st day she is nearly in the same place as on October 31st; on the 15th day she is about two degrees W. of Regulus, being near Mercury; and on the last day, Venus, & Leonis and Regulus form a triangle, she being 11 degrees S.S.E. of & Leonis, and about 21 degrees W. of Regulus.

C		AS.	TRONOMICAL C	L OCCURRENCES IN SEPTEMBER.											
	PLANET	S.	1	JUPITER'S	SATELLITES.	Occultations of Stars by the Moon.									
	Time of passing			Eclip	ses of		Times of								
Names	the Meridian or Southing on the 15th day	When near the Moon	Distance from the Moon, North or South	1st. Sat.	2nd. Sat.	Names of the Stars.	disappearance and re-appearance	At the dark or bright limb of the Moon.							
	on the isth day		North of South	Immersion	Immersion and Emersion		of the Star.	or she hadda							
Mercury.	н. м. 10 54 A. м.	р. н.	DEG.	D. H. M. 8 11 17 P.M.	D. H. M. 2 0 8 A.M.	olSagittarii . {	D. H. M. 1 9 18 P.M. 1 10 24 ,,	Dark Bright							
Venus .	10 32 ,,	18 8 г. м.	6 North	16 1 11 A. M. 23 3 4 ,, 30 4 58 ,,	9 0 11 9 2 46 16 2 49		12 3 12 а.м.								
Jupiter	5 24 ,,	12 4 д. м.	3 North	30 4 00 ,,	3rd. Sat.	M Tauri . {	12 4 28 ,,	Dark							
Saturn	10 16 P.M.	2 0 P.M.	6 South		10 11 42 г. м.										
Uranus	1 15 A. M.				18 1 30 18 3 42 A.M.										

September 3rd, 5h. P. M., Mercury stationary with respect to the fixed Stars. (See above)

September 10th, 9th. F.M., Mars in conjunction with the Sun.
September 11th, 8th. A.M., Mercury at his greatest W. elongation, 18 degrees. (See above.)
September 11th, 8th. A.M., Mercury at his least distance from the Sun.
September 20th, 4th. A.M., Marcury at his least distance from the Sun.
September 20th, 4th. A.M., All four of Jupiter's Satellites on the East side of the Planet.
September 23rd, 8th. A.M., Venus at her least distance from the Sun.
September 23rd, 10th. A.M., Sun enters Libra, and Autumn cemmences.



THE HOST HAVING RETURNED FROM HIS SUCCESSFUL DAY'S FIELD SPORTS, WITH HIS FAMILY, WITNESSETH FOOTBALL.

SEPTEMBER was named to mark its position of seventh (Septem), month in the Alban Calendar-and from imber, (shower); it being the commencement of the wet season in Rome. The Saxons called it Gerst Monath; gerst, or barley, being then in perfection. After the establishment of Christianity, this month was called by the Saxons Halig-Monath, the Holy Month, from the numerous religious ceremonics observed in the course of it.

The Anniversary of the Great Fire of London, Sept. 2, (1666) is, to this day, kept as a Holiday at the Bank, Customs, and Excise.

Bartholomew Fair is held on September 3, St. Bartholomew's Day, in the Old Style: it originated in two fairs or markets, one for the clothers of England, and drapers of London, granted to the Prior of the Convent of St. Bartholomew, and held within the churchyard: the other granted to the City of London for cattle and goods, held in the field of West Smithfield. For many years, the Fair lasted fourteen days, and was a great source of revenue to the Corporation: in 1735, it was restricted to three days, and it now extends but to one day.

Holy Rood, or Holy Cross Day, (September 14), is still observed as a Holiday, to commemorate the recovery of the Cross, which had been carried away by the King of Persia when he plundered Jerusalem, and was brought back in triumph by the Emperor Heraelius.

Nutting was formerly customary throughout the country, on this day; and, for centuries past, the boys of Eton School have written verses, and had a holiday for nutting, in this month.

September 18th is kept as a Holiday; and the Salisbury Breviary has on this day : "Keep always the Fast of the 9th month."

St. Matthew's Day, (September 21), the Lord Mayor and Aldermen of London visit Christ's Hospital in state, when orations are delivered in the great Hall by the senior boys, who are qualifying for college. The suppers on Sundays in Lent, are other public sights of this Hospital, "the noblest Institution in the world."

Michaelmas Day (Sept. 29), was instituted in the year 487, to commemorate the Ministry of St. Michael and all Holy Angels, the messengers of good-will toward men. It is a Holiday at the Public Offices; and in the Court of Exchequer, there is on this day performed a ceremony, by one of the Aldermen of London, of chopping sticks and counting hob-nails, as suit and service of certain ancient tenures. The custom of cating goose on Michaelmas Day, has much exercised the ingenuity of antiquaries; and is traced by some to a goose being the dish before Queen Elizabeth, when the news was brought of the defeat of the Spanish Armada. A more probable reason is, that Michaelmas Day was a great festival, and geese were then most plentiful; and it being one of the quarters, or terms, for the payment of rents, a fat goose was the customary present, though, as it would appear, from the tenant to the landlord :-

And when the tenauntes come to pay their quarter's rent,
They bir g some fowle at Midsummer, a dish of fish at Lent
At Christnasse a cappn, at Michaelma a goose,
And somewhat else at New Year's tide for feare their lense the lone.

A later poet says :--

At Michaelmas, by custom right divine, Geese are ordained to bleed at Michael's shrine.

In the autumnal garden, the day is florally commemorated :-The Michaelmas Daisy, among the dead weeds, Blooms for St. Michael's valorous deeds.

Harvest-home customs still linger, though they scarcely descrive the name of that festival, when, as Pope says :-

Our rural ancestors, with little hiest, Patient of lahour when the end was rest, Indulged the day that housed their annual graim

With feests, and offerings, and a thankful strain;

The joy, their wives, and sons, and servants share, share, where the solution of their toil, and partners of their care:

The laugh, the jest, attendants on the bowl, Smoothed every brow, and opened every soul!

Hunting has now commenced: the welkin begins to ring with the music of hounds; and the sound of distant guns may be heard in a country of game. Hunting was formerly commenced at day-break :-

Oft listening how the Hounds and Horn Cherely rouse the slumbering morn,

From the side of some hoar hill To the wild woods echoing shrill!

Somerville has left us an animated sketch of a morning in Autumn, preparatory to "throwing off the pack:"

Now golden Autumn from her open lap fler fragrant hounties showers; the fields are shorn; Inwardly smiling the proud farmer views The rising pyramids that grace his yard, And counts his large increase; his harus are stored,

and then,

Now golden Autumn from her open lap
fler fragrant hounties showers; the fields are
shorn;
Inwardly smiling the proud farmer views
The rising pyramids that grace his yard,
And counts his large inercase; his harns are
stored,
And groaningstaddles hend heneath their load.
Charmed with the rattling thunder of the field

The horn sonorous calls, the pack awaked,
Their matins chant.

My courser-hears theirvoice; see there with ears
And tail creet, neighing, he paws the ground;
Fierce rapture kindles in his reddening cyes,
My courser-hears theirvoice; see there with ears
And bools in every vein.

Our classic artist has depicted the host returned from sports with "hawk and hound," to witness the foot-ball match, first mentioned in the reign of Edward III. It was mostly played by "sturdic plowmen, lustic, strong, and bold;" or as the courtly Waller sings:-

A sort of lusty shepherds t y
Their force at foot-ball; care of victor; Makes them salute so rudely breast to breast, That their encounter seems too roughfor jest. Sometimes, pease and horse-beans were put into the ball, a blown bladder;

It ratleth, soundeth, and shineth clear and With foote and with hande the hladder for to Ayre,
While it is throwen, and caste np in the ayre,
Hit fall to the grounde, they liftit np agayne,
Each one contendeth and hath a great delite | And this waye to labour they count it no payne.

Formerly, money was given at weddings for foot-ball play; and about a century since, matches of foot-ball were played in the Strand, where the May-pole streamer flaunted in the breeze.

SEPTEMBER.

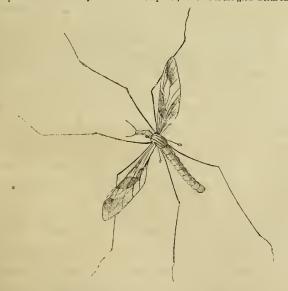
During this month, stone curlews clamour; wood owls are noisy; the flycatcher, black cap, nightingale, white throat, depart, and the woodcock returns, &c.

The partridge is in length about thirteen inches, and weighs about fifteen or sixteen ounces-the female about two ounces less; the breadth, when the wings are spread, is about twenty inches; the bill is hard, and light-brown; the eyes are hazel, and they are partly surrounded by a warty skin, which is placed principally behind the eye, and continues nearly half round it; the general colour of its plumage is brown and ash, elegantly mixed with black, and each feather is streaked down the middle with buff colour; the chin, cheeks, and forehead are tawny, and being palest in the females. Between the eye and the ear is a portion of naked skin of a bright searlet, which is not very conspicuous, except in old birds; on the breast is a chesnut mark in the form of a horse-shoe (see the engraving); this the female wants for the first two years, but, after that time, it is not nearly so good a distinguishing mark as is the bare skin round the eye, which, in the female, always inclines to a dull crimson, and never to that bright scarlet which it does in the male. The legs are yellowish in the young, and, as they increase in age, become grey; those of the male are furnished with a blunt spur or knob behind. The general colours are alike in both sexes. The age of partridges is discovered by the bill and legs; and another method is, from the appearance of the last feather on the wing, which is pointed after the first moult, but in the following year is quite round. We may remark here, that the feathers on the body are double, two feathers proceeding from the same quill; the inner one which is much the smallest, has two webs projecting from each side of the shaft.



COMMON PARTRIDGE.

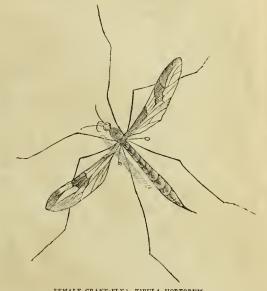
Insects are still numerous; moths, among which is the death's-head moth butterflies, beetles, grasshoppers, field bugs, and flies, abound. The caterpillar of the privet-hawk-moth may now be found on privet, and that of the glow-worm on



MALE CRANE-FLY: TIPULA HORTORUM.

heaths and banks. During this month, and the next, cranc-flies are abundant, particularly in pastures, where they rise in swarms on being approached; these creatures are found through the whole summer, but less numerous than they are

at this time. They are popularly termed daddy-long-legs, tailors, &c.; and are often found of nearly an inch in length, from head to tail; their bodies are very slender, and are composed of nine rings. The above is a drawing of the male, and the following is that of the female.



FEMALE CRANE-FLY: TIPULA HORTORUM.

Their bodies are of a brownish colour, and their corselets are so elevated, that they appear hump-backed; the head is small, and the neck very short; the eyes are so large that they nearly cover the whole surface of the bead. Each ring of the body is composed of two half cylinders, which are joined into one by means of a membrane, which gives them room to extend them or to close them at will. The horn at the extremity of the tail is the characteristic of the female, by means of which it deposits its eggs a short depth in the ground. It is curious to see them thus engaged, the body being vertical and moves up and down each time an egg is deposited, of which each female lays several hundred, passing ovor a considerable distance during the operation.

The beautics of Autumn, during this month, may be expected, and the beautiful tints on the foliage of trees and plants, cannot escape the most casual observer.

Antumn tinges every fertile hranch With blooming gold and blushes like the morn.—Akenside.

In the month of July, we spoke of one species of fungus, the order is divided into many sections. That called Agaricus, is distinguished by the under part of the cap having parallel plates, called gills, within which the seeds are placed. That called Boletus, has tubes or circular cells instead of gills. And it is this striking difference that distinguishes it from the mushroom. The boletus, too, is of a circular form; the puff ball is well known, and it has its seeds internally. There are nearly three hundred different species of agaries in this country; of all these, one only has been selected for cultivation in our gardens, the "agaric campestris," or common mushroom. The gills are loose, pinky red, changing to a liver colour, in contact with the stem, but not united to it. Very thick set; the gills are white, changing to brown when old, and becoming scanty; regularly convex; fleshy, flatter with age; from two to four inches, and sometimes more, in diameter, liquefying in decay; the flesh white; the stem solid, white, and cylindrical, from two to three inches high, half an inch in diameter. When the mushroom first makes its appearance, it is smooth and nearly globular, and in this state it is called a button. Annexed is a drawing of the species agaric,



MUSHROOM : AGARIC.



M	l w			S	UN.		1 N	loon.		I	High			on-	Equa		
M D	D	ANNIVERSARIES, OCCURRENCES, AND FESTIVALS.		ses-K.			Rises-R. Sets-S.	Sou	ths.	Age	Morni	ng. A	idge.	oon	of Ti Subtr		Day of the Year
-	1		n.	M.	0	1	н. м.	и.	M.	D.	n.			M.	н.	м.	
]	$ T_{\mathbf{H}} $	Pheasant shooting begins	6	1 R	3	9	Morning.	9	6	11	10	21	11	2	10	15	274
2	F	London University opened, 1828	5	38^{s}	3	32	2 38 s	10	1	12	10	37		- 11	10	34	275
3	S	King's College opened, 1831	6	5^{R}	3	55	3 59 s	10	56	13	0	6	0 :	35	10	53	276
4	S	17TH SUNDAY AFTER TRINITY	5	32^{s}	4	18	4 19 s	11	50	0	0	59	1 5	23	11	12	277
1		Old Parr died 1635, aged 152	6	9 R	4	41	Afternoon.	Mor	ping.	15	1	46	2	8	11	30	278
6	Tu	Mercury rises at 5h. 57m. A.M., midway between	5	27 s	5	5	6 18 R		45	16	2	30	2 !	52	11	47	279
1	W	Zimmerman died, 1795 [the E. and E. by S.		12R	5	28	6 54 R	1	39	17	3	14	3 3	34	12	5	280
8	Тн	Venus rises at 4h. 30m. A.M. near the E.	5	22 s	5	51	7 38 R	2	34	18	3	56	4	16	12	22	281
9	\mathbf{F}	St. Denys-Mars rises at 5h. 14m. A.M. near the E.	6	16 ^R	6	14	8 26 B	3	28	19	4	36	4 !	57	12	38	282
10	S	Oxford and Cambridge Michaelmas Terms begin	5	18 s	6	36	9 18 B	4	20	20	5	16	5	38	12	54	283
1	S	18TH SUNDAY AFTER TRINITY	6	19 ^R	6	59	10 13 B	5		21	6	0		24	13	9	284
15		Jupiter rises at 7h. 35m. P.M. near N.E.	5	13 s	7	22	11 13 F	5	59		6	50	7	18	13	25	285
13	Tu	Length of Day 10h. 49m.	6	22^{R}	7	44	Morning.	6	46	23	7	49		29	13		286
14		Saturn sets at 1h. 2m. after midnight, near W.S.W.	5	8 s	8	7	0 15 B	7		24	9	10		49	13	53	287
l i	Тн	Murat shot, 1815	6	25^{R}	8	29	1 16 F	8	14	25	10	28	11	3	14	6	288
10		Houses of Parliament burnt, 1834	5	4 s		51	2 20 B	8	57	26	11	36			14	19	289
12	S	Uranus sets at 5h. 24m. A.M. a little N. of E.	6	28^{R}	9	13	3 22 F	9	39	27	0	3	0 5	25	14	31	290
18	35	19TH SUNDAY AFTER TRINITY-St. Luke the	5	0^{s}	9	35	4 261	10	22	28	0	44	1	3	14	43	291
1!		Evangelist.—A festival of the Church of England. This day was appointed to be St. Luke's festival, in the twelfth century.		31 ^R	9	57	5 32 F	11	6	29	1	20	1 :	37	14	54	292
20	Tu	Battle of Navarino, 1827	4	56 s	10	19	6 32	11	52		1	53	2	8	15	4	293
2	ı W	Battle of Trafalgar, 1805—Nelson killed	6	34 R	10	40	Afternoon.	Afte	rnoon	1	2	26	2 4	44	15	14	294
25	2Тн		4	52 s	11	2	6 7 8	1	31	2	2	59	3	18	15	23	295
2	\mathbf{F}	Royal Exchange founded, 1667	6	38R	11	23	6 51	2	24	3	3	33	3	50	15	32	296
2	1 S	Mercury sets at 5h. 5m. P.M. near W.S.W.	4	47 S	11	44	7 43 °	3	18	4	4	9	4	26	15	39	297
2.	5 5	20TH SUNDAY AFTER TRINITY-St. Crispin and	6	42 R	12	5	8 43 8	4	13	5	4	45	5	6	15	46	298
20	$\widetilde{\mathbf{M}}$	St. Crispinian were two Roman youths, brothers, who in the third century went as Christian Missionaries to France, and preached for some time at Soissons. They supported themselves by working at the trade of a shoemaker by night, while they preached duing the day.	4	43 s	12	25	9 518	5	9	6	5	28	5	50	15	53	299
2	7 T v	Soissons. They supported themselves by working at the trade of a shoemaker by night, while they preached duing the day	6	46^{R}	12	46	11 48	6	4	D	6	18	6	45	15	58	300
2		St. Simon and St. Jude—a festival of the English	4	39 s		6	Morning.	6	58	8	7	17	7	56	16	3	301
2	9 Тн	Church. Simon remained with the other apostles till after the Pentecost; it has been surmised that he visited Britain and there suffered martyrdom	6	50 B	13	26	0 19	7	51	9	8	38	9	20°	16	7	302
3) F	Jude, otherwise called Thaddeus, suffered martyrdom in Persia.	4	36 s	13	46	1 36	8	44	10	10	1	10	40	16	11	303
3	1 S	All Hallows Eve—Hare Hunting begins	6	53 F	14	6	2 57	9	36	11	11	14	11	45	16	14	304
1-		I RIGHT ASCENSIONS AND	DEC	CLINA	TIO	NS (OF THE	PLA	NETS	3.							

010 110 110 110 110 110 110 110 110 110													
	1]	IGHT A	SCENSIONS	AND I	DECLINAT	ONS OF	THE PLANETS.					
Times of changes of the Moon, and	Days	ME	cuay.	VEN	us.	MA	RS.	JUPITER.	SATURN.	Uaanus.			
when she is at her greatest distance (Apogee), or at her least distance (Perigee) from the Earth, in each Lunation.	of the M.	Right Ascensio	Declina-	Right Ascension.	Declina- tion	Right Ascension.	Declina-	Right Declina- tion North.	Right Declina- tion South.	Right Ascension. Declina-			
Full Moon 4th 10h. 6m. P.M.	1			11h. 22m.					21h 50m. 14° 47'	0h. 47m. 4° 16'			
Third Quarter 12th 4 8 A.M.	6			s 11 45	3 13N		0 49s		21 50 114 51	0 46 4 11			
New Moon 20th 7 44 ,,	11	13 16		s 12 8	0 46N				21 49 114 54	0 45 4 7			
First Quarter 27th 3 10 P.M.	16	13 47	10 49	s 12 31	1 428	12 40	3 26s	5 2 21 59	21 48 14 56	0 45 4 2			
Perigee 3 7 A.M.	21	14 17	14 6	s 12 54	4 10s	12 52	4 44s	5 0 21 58	21 48 14 58	0 44 3 58			
Apeges 15 6 ,,		1				1			103 40 114 50				
Perigee 31 4 ,,	26	14 4	17 4	s 13 17	6 379	13 4	6 2s	4 59 21 56	21 48 14 58	0 43 8 53			

OCTOBER.

DURING the month of October, Saturn is the only Planet favourably situated in the evening for observation; it can be readily found all the month, by conceiving an imaginary line drawn from Y Aquilæ, through B Aquilæ—(See September)continued to the distance of about 32 degrees from a Aquilæ; Saturn is preceded by two Stars of the 3rd. magnitude, and there are no other Stars so bright as the 3rd magnitude near him. Persons who are not accustomed to Angular Measure, may estimate the distance from a Aquilæ to the Planet with great exactness, or any other distance expressed in degrees, by the following considerations. The distance between the pointers of the Pole Star, is 5 degrees-(See January.) The distance between the Pole Star and the Pointer nearest to it is 29 degrees. The distance between the three Stars in Orion-(See March)-is just 3 degrees, there being very nearly 1 degrees between € Orionis, the central Star, and the one on each side of it; the distance of a Orionis, from Y Orionis, in the same engraving, is 8 degrees; the distance between a Lyræ and a Aquilæ, is 35 degrees; the distance between a Aquilæ, and a Cygni, is 38 degrees; and by considering that the diameters of the Sun, and of the Moon, are each about half a degree, a very correct idea of the extent of space expressed by degrees, may be thus attained.

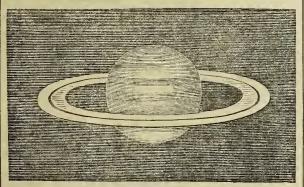
The Planet, Saturn, is distinguished from the other Planets, by being surrounded by a luminous double ring of great extent, and in consequence presenting some of the most curious phenomena in the heavens.

This ring sometimes appears continuous all round the body of the Planet; at other times the body of the Planet appears to repose between its extremities; and at other times he appears as other Planets do, without any ring whatever.

The ring is at a considerable distance from the body of the Planet, and is only luminous in consequence of its reflecting the Sun's rays; it is plain, therefore, that it cannot be visible when the Sun is on one side of it, and the Earth on the other; for then the observer on the Earth, would be looking at the dark side of the ring. It is, therefore, necessary for both the Sun and the Earth to be on the same side of the ring, to enable us to see it. It is also invisible at other times, first, when its edge is towards the Earth, for then none of its reflected light can reach us; and secondly, when its edge is towards the Sun, for the edge then can only be illuminated; the ring being very thin, the quantity of reflected light from its edge will scarcely render it visible.

Twice in each of Saturn's revolutions, that is, in 29 years, 5 months, and 14 days, the edge of the ring is towards the Earth, and, consequently, invisible to us.

During the present month the Sun and the Earth are on the same side of the ring, and the ring presents its North side towards us, and its appearance is represented in the following engraving.



TELESCOPIC APPEARANCE OF SATURN DURING THE YEAR 1846.

This month will be the best to observe the Planet for some years. Next year the ring will be so placed that we shall see less of it, and in a part of the year 1848, it will be invisible; afterwards it will show its Southern side.

The distance of Saturn from the Sun is about 900 millions of miles, and the Sun, as viewed at that distance, covers a space in the heavens of only about one-eightieth of that which the Sun appears to us to cover; and, consequently, Saturn derives but one-eighticth part of the light and heat that we do. The time of his revolution on his axis is 10h. 16m; the Sun, therefore, returns more than twice as soon to the Meridian of any place on his surface, as he does to any place on the Earth's surface; and the deficiency of light ts abundantly supplied by th reflected ring. The Planet is attended by seven Satellites, but three only can be seen by powerful telescopes; the reflected light from the Satellites and the ring must be considerable.

The distance of the nearest part of the ring to the body of Saturn is 19,090 miles; the breadth of the interior ring is 17,176 miles; the space between the rings is 1,791 miles, and the breadth of the exterior ring is 10,573 miles, according to the micrometrical measures by Professor Struve. The thickness of the ring is less than 100 miles - (See Memoirs of the Astronomical Society, Vol. III., page 301) The diameter of the Planet is 79,160 miles. The ring, therefore, in width is more than one-third of the diameter of the Planet, and its thickness is scarcely discernible, so that, at times, when the edge of the ring is towards the Earth, a dark line only appears across the Planct.

Mercury rises in E. by N. on the 1st day, at 5h. 31m. A.M., and he is situated about 2° S. of Regulus. On the 15th day he rises in the E.S.E. at 6h. 54m. A.M; the Sun will have been, however, above the horizon at this time 27m.; he will set in the W.S.W. at 5h. 18m., being about 14m. after the Sun, so that this time is very unfavourable for seeing him, and it continues unfavourable during the remainder of the month.

Venus rises in the E. by N. point of the horizon on the 1st day at 4h. 11m. A.M., and she with $oldsymbol{eta}$ Leonis and Regulus form a triangle, being 11° S.S.E. from \$ Leonis, and 22° W. of Regulus. On the 15th day she rises in the E. at 4h. 54m. A.M.; she is situated nearly in a line with β Leonis and α Virginis, and close to that remarkable double star γ Virginis; being 15° from α Virginis, and 20° from B Leonis. On the last day of the month she rises in the E. by S at 5h. 45m. A.M., and she is situated about 6° W. of a Virginis.

Mars rises at the beginning of the month in the E., and towards the end of the month in the E. by S. points of the horizon; on the 1st day at 5h. 17m. A M.; on the 15th day at 5h. 14m. A.M., and the last day at 5h. 12m. AM. On the 1st day he is situated in a line drawn from the Pole Star through & Ursæ Majoris (See January) continued to 89° from the Pole Star, or to a point 11° S.S.W. of B Leonis; on the 15th day he is situated in a line from the Pole Star through 6 Ursæ Majoris to 93° from the Pole Star; and he is nearly in a line with a Virginis and \$\beta\$ Leonis, being 11° from \$\alpha\$ Virginis, and 24° from \$\beta\$ Leonis. On the last day of the month he is about 3° N. of a Virginis.

Jupiter rises in the N.E. by E. throughout the month at 8h. 14m. A.M. on the 1st day; at 7h. 19m. A.M. on the 15ih day; and at 6h. 12m. A.M. on the last day.

The following is the position of the Constellations, that are rising; on the meridian : and setting on the 1st day at midnight.

Constellations Rising.	Constellations on the Meridian	Constellations Setting.
Leo Minor in N.N.E.	€ Ursæ Major 18° above N. of horizon	Corona Borealis in N.W.
Cancer in N.E. by E.	Draco 30° above N. of	by N. Herculis in N.W. by W.
Canis Minor in E. by N.	Cassiopiæ between Polaris and the Zenith	Ophuichus in W.N.W.
Monoceros in E.	Andromeda 15° S. of the	Capricornus in W.S.W.
Orion in E. S. E.	Pisces 65° above the S.	Pisces Australis in S.W.
Lepus in S.E. by E.	Cetus 20° above the S. horizon	by S.

ASTRONOMICAL OCCURRENCES IN OCTOBER.													
	PLANETS	3.		JUPITER'S S	ATELLITES.	Occultation	OF STARS BY T	HE MOON.					
	Time of passing		Angular	Eclip	oses of		Time of						
Names	the Meridian or Southing,	When near	distance from	lst. Sat.	2nd. Sat.	Names of the Stars	disappearance	At the dark or bright limb					
	on the 15th day	the Moon	the Moon North or South	Immersion	Immersion	Stars	re-appearance of the Star	of the Moon					
Merenry	н. м. 0 6 р.м.	р. н.	DEG.	р. н. м. 1 11 26 р.м.	D. H. M. 3 9 20 P.M. 10 11 57 "	119 Tauri	D. H. M. 9 10 24 P.M. 9 11 0 ,,	Bright Dark					
Venus	. 10 52 A.M.	19 4 м.ж.	3 North	9 1 20 AM.	18 2 34 а.м.								
Mars	. 11 3 "	19 6 а.м.	2 North	16 3 13 ,,	25 5 11 ,,	120 Tauri . }	9 10 52 P.M. 9 11 46 ,,	Bright Dark					
Jupiter	. 3 29 ,,	9 2 г.м.	3 North	17 9 42 P.M.	3rd. Sat. Immer, and Emer.								
Saturn	. 8 13 р.м.	1 11 "	7 South	23 5 7 А.М.	23 9 26 23 11 42} P.M.	AGeminorum. }	11 10 56 P.M. 11 11 41 ,,	Bright Dark					
Uranus	. 11 8 "	5 1 а.м.	2 South	24 11 36 г.м.	31 1 26 31 3 43 A.M.								

October 4th. Jupiter's Satellites all from East of the Planet, and on the 14th. day West of him, at about 4h. in the morning.

October 7th. 11h. P.M., Mercury in superior conjunction with the Sun—(See September) October 19th., the Sun Eclipsed; but it is not visible in the British 1sles.

October 28th. 6h A.M., Mercury at his greatest distauce from the Sun.



THE HOST AND HIS FAMILY SPECTATORS OF THE MYSTERIES OF ALLHALLOW EVEN.

OCTOBER, though from the age of Numa it has been the tenth month of the year, derives its name from its original position in the Alban Calendar; being compounded of Octo, eight; and imber, a shower. The Saxonscalled it Wyn Monath, or the Wine-Month; and also, Wynter-Fyllyth, from the approach of Winter.

St. Denys, (October 9), is the tutelar Saint of France: his reliques are enshrined in the superb abbey-church near Paris.

St. Wüfrid, (Oct. 12), was Archbishop of York, and founded the monastery of Ripon, where his body was buried, in 709, in the church of St. Peter: he is reputed to have invented the gamut; and his Festival is annually kept at Ripon on the Sunday after Lammas Day, on the eve of which feast is a procession, in which the fiddle is not forgotten.

St. Ethelburgh's Day, (Oct. 11,) was formerly a monastic and rural feast: amidst the annual store of provision at Barking Nunnery, occurs "wheat and milk for Frimitie, (Furmety,) upon St. Alburg's, (St. Ethelburgh's,) Day.

St. Luke, (October 18), is the patron of painters, from his reputed skill in painting, especially in portraits of Our Saviour: the usual oath of King William Rufus was by the face of Christ, depicted by St. Luke. His day is still kept at the Public Offices.

S. S. Crispin and Crispinian's Day, (October 25), is but slightly observed. Shakspeare has perpetuated the memory of this Festival by the speech which he has given to Henry V., before the battle of Agincourt :-

This day is called the Feast of Crispian:
He that outlives this day, and comes safe home,
will stand a-tiptoe when this day is named,
And rouse him at the name of Crispian:
He that shall live this day, and see old age,
Will yearly, on the vigil, feast his neighhours,
And say to-morrow is St. Crispian.

Both Saints are said to have been Romans of noble family, put to death in the persecution under Diocletian, at Soissons, in Ganl. Their bodies were afterwards translated to Rome, and interred in St. Lawrence's church; they are, also, traditionally stated to have been buried near Lydd, in Kent, where a heap of stones is to this day called "Crispin's Grave."

St. Simon and St. Jude's Feast, (October 28), was superstitiously considered rainy, as well as that of St Swithin; and this, probably, because the autumnal rains began on or about that day. In an old play occurs: "I know it as well as I know 'twill rain on Simon and Jude's Day." In another old play occurs: "Now a continued Streen and Jude's rain beat all your feathers as flat down as pancakes." And, we learn from Holinshed that, in 1536, when a battle was appointed to bave been fought upon this day between the King's troops and the Rebels in Yorkshire, that so great a quantity of rain fell upon the eve thereof, as to prevent the battle from taking place.

Allhallow Even, (October 31), the great festival of the month, the vigil of All Saint's Day, with all its revels, is depicted by our artist. Here is the sport of flinging nuts into the fire, to propitiate omens touching matrimony; when, if the

nuts lie still, and burn togeth er, they prognosticate a happy marriage or hopeful love; if, on the contrary, they bounce, and fly asunder, the sign is unpropitious: such is the custom in the North, where it is called Nuterack Night; in Ireland there is a similar custom: and Burns bas commemorated its "sports, cheep and cheery" in the West of Scotland:-

Some merry, friendly, countra focks
Together did convene
To hurn their nits, and pou their stocks,
And haud their I alloween
Fu' blythe that night.

Another sport was to dive for apples, and to catch at them when stuck upon the ends of a stick, crossed by another with lighted candles at the ends; and that with the mouth only, their hands being tied behind the players' backs. There were also on Allhallow E'en, various divinations, eating the apple at the glass, running round the stack three times, bonfires, ringing of bells, and feasting.

With this month begins Pheasant-shooting, of which Pope has given a touching picture :--

Scc! from the hrale the whirring pheasant springs,
And mounts exulting on triumphant wings:
Short is his joy, he feels the fiery wound,
Flutters in hood, and panting heats the ground,
with gold!

Ah! what avail his glossy varying ayes,
His purple crest, and searlet-circled eyes;
The vivid green his shining plumes unfold,
His painted wings, and hreast that flames
with gold!

Change, the characteristic of Nature, is never better seen than in this month, lecturing us with its scenes of falling grandeur. Dr. Johnson revelled in these meditative musings, from Pope's translation of Homer :-

Like leaves on trees, the race of Man is found, Now green in youth, now withering on the ground; Another race the following Spring supplies, They fall successive, and successive rise; So generations in their course decay, So flourish these when those are passed away.

The Swallow has now left us, having staid :-

Till trowning skies hegan to change their cheer, And time turn'd up the wrong side of the year; And time turn'd up the wrong side of the year; The shedling trees hegan the ground to strow with yellow leaves, and hitter blast to blow: 1

Dature.

At the close of the month begins Hare-hunting; Thomson has stigmatised this sport as "the savage soul of game:"

Poor is the triumph o er the timid Hare i

O'er a weak, narmiess, flying creature, all Mix'd in sad tumult, and discordant joy. Winter is now approaching :-

Octoher winds, wi' biting breath,
Now uip the leaf that's yellow fading;
Nae gowans glint upon the green,
Alas! they're co'er'd wi' winter's deading.

As through the woods I musing gang,
Nae hurdies cheer me frac the bushes,
Save little Robiu's lanely sang,
Wild-warbling where the hurnic gushes.

J. SCADLOCK. I. T.

OCTOBER.

SEVERAL migratory birds leave this month; the redwing, fieldfare, royston erow, wood pigeon, and snipe, arrive; broods of goldfinehes appear, &c.

The goldfinch is in length nearly five inches; and weighs about an ounce: its bill is white with a blackish tip, and of a conical form; the forehead and throat are of a rich scarlet colour, with a black line passing between them from the bill to the eyes, which are black; the cheeks and the lower part of the neck white; top of the head black, which extends downwards, and divides the white on the cheeks from the white spot on the hinder part of the neck. The whole of the upper parts with the sides of the breast are of a bright yellowish brown; belly white; wings black, marked in the middle of each feather with gamboge yellow; rump whitish; six middle tail feathers, black with white tips; legs slender and of a pale brown.



The colours nearly similar in both sexes; those of the female are scarcely so vivid, and the wing coverts are inclined to brown. This bird is well known, and highly esteemed in every part of the kingdom, and it is very common throughout the country. The Count de Buffon says:—Beauty of plumage, melody of song, sagacity, and docility of disposition, seem all united in this charming little bird, which, were it rare, and imported from a foreign country, would be more highly valued; these qualities, together with its natural hardiness of constitution, all combine to make it a general favourite.

Its song, which may be heard at almost every season of the year, is brisk, lively well kept up, and extremely musical and cheerful.

The goldfinch's nest is a very beautiful structure; it is externally formed of moss, dry grass, and lichens; and lined with the down of thistles, hair, and wool. It usually lays four or five eggs, of a blucish-white colour, slightly spotted with dark purple at the largest end.



THE BULLFINGH.

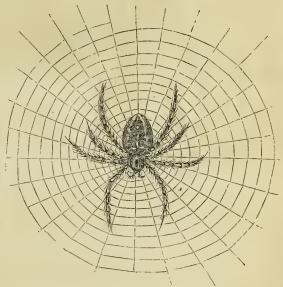
The bullfinch is in length six inches; in breadth, when its wings are spread, about ten inches; and weighs near three-quarters of an ounce; bill short, very strong, and dusky. The upper mandible is much hooked, and sharp pointed; eyes large and black; the upper part of the head, and the ring round the bill, are of a fine glossy black, the back ash colour, the breast and belly red, wings and tail black, legs slender and dark brown, claws long and curved, colours very

similarly disposed in both sexes. Those of the female are less bright, and the under parts of a reddish brown. Both sexes are very subject to alter in the colours of their plumage, frequently becoming quite black when kept in confinement.

The note of this bird is soft, and is far from unpleasant. It is so low that it frequently escapes observation. When confined it may be taught to whistle a variety of tunes; its note is usually called piping.

Spiders abound on every shrub; and when we consider that the spider is destitate of a distinct head; without horns; one half of its body attached to the other by a very slender connexion, and so soft as not to bear the least pressure; its limbs so slightly attached to its body that they fall off at a very slight touch; it appears ill adapted either to escape from danger which threatens it on all sides, or to supply itself with food; the economy of such an insect deserves notice.

They have usually five teats at the extremity of the abdomen, whose apertures they can enlarge or contract at pleasure. It is through these apertures a gummy fluid exudes, and it is of a yellow colour in the common garden spider, which we have delineated below. From each of these teats they discharge a thread. The first object a spider has to accomplish, is to attach its thread to some object, as the commencement of the ground work for its future operations. The web of the most common of the spider construction in this country, is that of the diadema, the common garden spider; its web consists of lines diverging at equal distances from the centre, which are then connected by a series of transverse bars; spiders in general station themselves at the centre of their webs, with their heads downwards. Annexed is a drawing of the garden spider in its web.



THE GARDEN SPIDER IN ITS WEB.

The colour is reddish brown, abdomen round, and marked with white spots in the form of a cross. The body varies much in colour from a darker to a lighter reddish-brown. The position of its eyes is • . . : . • It has eight legs. There are above a hundred species of this genus, which are separated into distinct sections, according to the number and position of their eyes.

In forming this web, the top line is first spun, the other outer threads of the frame-work are then added, and a cross line is then carried from one point of the web to another, exactly opposite. From the middle of this cross line, the insect ascends or descends, having first glucd another thread at the centre, which it attaches to the outer lines, and then, going along the latter to a certain distance, it fastens the thread to one of the outer or frame lines. In this manner it constructs the diverging lines; next it attaches a thread to one of the lines proceeding from the centre, and then drawing it out with its hind legs, ascends along the line till it can lay hold of the next line, down which it descends, until it reaches a spot exactly opposite to where the thread was attached to the other line; it then quits its hold with the hind legs, and the thread is glued to the proper spot, and so on, till the whole web is completed. There are many other methods of weaving, peculiar to different species of spiders, and some that deserve particular attention. One other, that of the common house spider, we did intend to describe, but cannot do it for the want of room; but we would recommend our readers to notice it themselves.

During this month, there are but few additional flowers. We may enumerate the following—common ivy, on old walls; common pheasant's-eye, in cornfields; stinking geranium, by road sides; and even these few, towards the end of the month, soon fade away.

Pade, flowers! fade; nature will have it so;
'Tis but what we must in our autuum do!
And as your leaves lie quiet on the ground,
The loss alone by those that lovd them found;
So in the grave shall we as quiet lie,
Missel by some few that lovd our company;
But some so like to thome and nettles live,
That none for liven can, when they perish, grieve,—Waller.



71	w	ANNIVED OF DIEG OCCUPATIONS AND PROPERTY IS	١,,		N.	[loon.			High	Wate ion B	er at	Lon-	Equa of T	tion	Day of
D	D	ANNIVERSARIES, OCCURRENCES, AND FESTIVALS.		ses—R. ets—S.			Riscs-R. Sets-S.	Sou	ths.	Age	Morr		After	noon	Subt		the Year
_			n.	M.	0	-,	н. м.	H.	DI.	D.	E.	M.	и.	DI.	н.	M.	
1	G	21st Sunday After Trinity—All Saints	6	56^{R}	14	25				12			0	13	16	15	305
2	M		_	31 R			Morning.	Arter	HOOH	13	0	20	1	9	1.0	17	
· 4	1/1	All Souls—Michaelmas Term begins	1	91	14	44	5 32 s	11		01	0	39	1	3	10	1/	306
3	Τυ	Mereury sets at 4h. 52m. P.M.—Mars rises at	0	59 R	15	3	6 50 s	Mor	ning.	0	1	25	J.	48	16	17	307
4	W	King William III. landed, 1688 [5h. 12m. A.M.	4	27 s	15	22	Afternoon.	0	18	15	2	11	2	32	16	16	308
5	Тн	The Anniversary of the Discovery of the Gun-	7	2R	15	40	6 13 R	1	13	16	2	53	3	14	16	15	309
6	F	powder Plot in 1605, colchrated in the Church of England by a form of	.1	24 s		58	7 6 R	9	7	17	3	34	3	5.1	16	13	310
~	_	prayer with thanksgiving; but the day is chiefly noted by the triumph of schoolboys over the effigy of Guy Fawkes	/T			7.0		0	- 0	10	<i>J</i>	1 4	9	00	1.0	10	
1	S	<u> </u>	1	6 R	10	10	8 0 ^R	3	~	18	4	14	4	33	10	10	311
8	S	22nd Sunday after Trinity	4	22 s	16	34	$9 - 1^{R}$	3	50	29	-1	52	5	14	16	-6	312
9	M	Lord Mayor's Day first instituted, 1453—Prince	7	9 R	16	51	10 2R	4	39	20	5	33	5	54	16	- 1	313
10	Tu	of Wales born, 1841	4	19 s	17	8	11 4R	5	25	(6	18	6	41	15	56	314
11	W	St. Martin's Day, or Martinmas-Popularly this		12^{R}	17	25	11 1	G	9	22	7	8	7	20	15	10	215
10	(17	is one of the most remarkable days in the year, especially in Scotland, where	4		17	4.7	Morning.	C	4.	93	0	1.0	0	50	1.5	40	010
12	Тн		4	16 s	1/	41	0 6 %	0	52	20	8	13	8	32	19	42	310
13	$ \mathbf{F} $	Whitsunday and Martininas are the two great terms for leases and chagged ments of servants, the latter heing that at which the occupation of farms usually commences. Martin is said to have been horn in Lower Hungary,	7	16 R	17	58	1 8 ^R	7	34	24	9	27	10	-2	15	34	317
14	S	about 316, and to have originally been a soldier	4	12 s	18	13	$2 12^{R}$	8	17	25	10	36	11	7	15	25	318
15	S	23RD SUNDAY AFTER TRINITY—Venus rises at	7	20^{R}	18	29	3 17 ^R	9	- 1	26	10	37			15	15	319
16		Rubens, the painter, born, 1577 [6h. 35m. A.M.	4	10 s	18	44	4 22R	Q	46	27	0	2	0	24	15	4	320
17		Length of day, 8h. 46m.	7	23 R	_	59	5 30R	10	33	28	0	44	1	3	14	52	321
18	337	Wolsey died, 1530, aged 59	1	8 s		13	"	11	0.4		1	94	1	12	14	10	200
	111		4	OF P	19		6 40 K	11	24		1	50	1	10	14	40	322
19		Saturn sets at 10h. 43m. P.M.	1	271	19	28	Afternoon.	After	moon	1	1	59	Z	19	14	20	323
20	F	Fleet Market opened, 1826	4	6 s	19	41	5 37 s	0	16	2	2	37	2	55	14	12	324
21	S	Princess Royal born, 1840	7	30^{R}	19	55	6 35 s	1	12	3	3	15	3	33	13	57	325
22	S	24TH SUNDAY AFTER TRINITY—St. Cecilia	4	3 s	20	8	7 41 s	2	8	4	3	53	4	13	13	42	326
23	M	St. Clement, Old Martinmas - St. Clement is	7	33R	20	21	8 53 s	3	4	5	4	34	4	56	13	25	327
24	Tu	spoken of by St. Paul as one of his fellow-lahourers. He is said to have heen		n s	20	33	10 88	1	ó	6	5	19	5	43	13	8	328
0.5	337	thrown into the sea with an anchor fixed about his neck	77	9 C B	$\frac{20}{20}$	15	11 25 s	1	54	D	G	9	6	39	12	50	329
40	W	St. Catherine—Jupiter rises at 4h. 28m. P.M.	0	36 K		45	11 40	1 4			0	C	0			0.1	
26	TH	Dr. Watts died, 1748, aged 76	3	01	20	57	Morning.	5	47	8	1	0	1	41	12	31	330
27	F	Hatfield House burnt, 1835 [5h. 8m. A.M.	7	39^{R}	21	8	$ 0 41^{8}$	6	39	9	8	16	8	57	12	12	331
28	S	Oliver Goldsmith born, 1731-Mars rises at	3	55 s	21	19	1 588	7	30	10	9	32	10	6	11	52	332
29	5	ADVENT SUNDAY-Mereury sets at 4h. 53m. P.M.	7	42 R	21	29	3 158	8	22	11	10	44	11	19	11	31	333
30	M	St. Andrew—Venus rises at 7h. 23m. A.M.	3	54 s	21	30	4 29 5	0	14	12	111	48			11	Q	334
	111	RIGHT ASCENSIO	NS			ECL	INATIONS	OF	TH	E	PLAI	VETS	3		1-1		

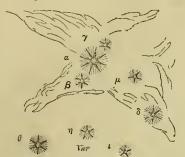
Times of changes of the Moon, and	Days					1/1/	XII .	MOCE	1191	OMS	AND	וע יי	SCILL.	NWII	CM2	Or	III	E I	LAME	13.					
when she is at her greatest distance	of		MERC	uar.	1		VENU	8.			MAE	15.	- (JUPIT	ER.			SATU	RA			URAN	US.	
(Apogee), or at her least distance (Perigee) from the Earth, in each Luuation.	M.		ight nsion.	Decl tio Sou	n		ight nsion.	Decl tio Sou	n		ight nsion.		lina- on utb.		ght nsion.	Decli tio Nor	n		ight ension.	Dec tie Sou	on		ght naion.	Decl tio Nor	n
Full Moon 3d. 9h. 11m. A.M.	1	15h.	23m.	20°	167	13h.	45m.	90	28'	13h.	19m.	70	34'	4h.	57m.	21°	53'	21h.	48m.	140	581	Oh.	43m.	30	48'
ThirdQuarter10th 11 44 P.M.	6	15	53	22	17	14	9	11	45	13	31	8	49	4		21	50	21	48	14	56	0	42	3	44
New Moon 18 11 0 ,,	11	16	23	23	57	14	33	13	55	13	44	10	3	4	53	21	47	21	48	14	54	0	41	3	41
First Quarter 25 10 31 ,,	16	16	52	25	5	14	58	15	56	13	56	11	15	4	50	21	42	21	49	14	51	0	41	3	18
Apogee 12 2 A.M.	21	17	18	25	38	15	23	17	47	14	9	12	26	4	48	21	39	21	50	14	47	0	40	3	35
Perigee 25 10 P.M.	26	17	39	25	34	15	48	19	27	14	22	13	35	4	45	21	35	21	51	14	42	0	40	3	32
NornWherever the symbols 9 a	nd / ar	ra msad	thrane	haut t	hi- A	lmane	alr the		a ha	naid	ound no				ann and	minut	00.01	onen.	lar dista	TCO:	for the	e met	to bed	ag tipe	tine

which, see October.

NOVEMBER.

As the general phenomena during this month are very similar to those in the preceding and the following month, we shall proceed to explain the method of finding the principal stars visible in the evenings of the last months of the year.

The following is a representation of the positions of the stars in the constellation of Aquila, or the Eagle.



In the above drawing of the stars in the constellation Aquila, or the Eagle, a line from θ through β , α and γ , leads to α Lyræ a bright star a little S. of the Zenith; this line meets with two stars before it reaches α Lyræ, near to each other; the higher of the two is β Lyræ, the other is γ Lyræ; the former of these two stars is variable in brightness, being at times much brighter than at other times.

The amount of its variability is from having the brightness of a star of the 3rd magnitude, it changes to that of the 5th magnitude, and then increases its brightness till it is of the 3rd magnitude again; the time of its passing from one of these states to that of the other is about 6d. 9h.

A line from α Aquilæ through α Lyræ leads to two bright stars N. of the Zenith, and whose distance from each other is 4° ; the most westerly one is β Draconis, the other is γ Draconis.

Near to the Zenith, but east of it, is the bright star α Cygni. A line from α Cygni through α Lyre leads to the Northern Crown, being six stars placed in a semi-circle; the brightest is α Anrora Borealis.

A line from α Lyr α through the Northern Crown leads to the bright star Arcturus, a little North of West at the altitude of 19°.

A line from the Pole Star through β Draconis passes to two bright stars at the same elevation as α Aquilæ; the one to the W. is α Serpentis, the other is α Ophiachi.

East of the Pole Star is Cassiopeia; a line from the Pole Star through Cassiopeia leads first to α Andromeda, and below it to γ Pegasi; these two stars form nearly a square with two other bright stars at the same elevation as themselves; and to the right of them, the higher of those two stars is β Pegasi, and the lower is α Pegasi.

Looking N.N. E, at the height of 13° is Capella ; a little W. of it, but nearer the horizon, is β Aurigæ.

A line from β Aurigae through Capella leads to γ Andromedæ, this line, a little bent downwards, leads to β Andromedæ, and continued onwards leads to α Andromedæ.

A line from Capella to γ Andromedæ passes nearly midway between two bright stars; the upper one is α Persei; the lower one is that very remarkable star β Persei (Algol); this star attains a maximum of brightness, and by degrees suffers a diminution of it. At its brightest it is as brilliant as a star of the 2nd magnitude, and after an interval of about 69 hours it appears to be of the 4th magnitude only; it then increases in brilliancy and becomes as bright as the 2nd

magnitude again. We may here remark that there are some stars which attain their greatest brightness and then gradually decrease in brilliancy till they disappear altogether; but the periods of these are very long. In every respect β Persei is one of the most remarkable of those variable stars, and persons by comparing its brightness with the brightness of other stars near it during a few nights cannot fail to observe these changes.

A little N. of East at an elevation of 15° is α Arietis; closely following Aquila is a remarkable group of stars called Delphinus.

α Lyræ, with α Cygni and α Aquilæ form a remarkable triangle.

a Aquilæ through & Aquilæ leads to the bright star Antares.

Immediately under the Northern Crown are seven remarkable stars in the constellation of Serpentis.

The principal constellations now visible are the following:-

Under the Pole Star is the Lynx

Between the Pole Star and the Zcnith is a part of Draconis.

The Zenith is occupied by a part of Cygnus (the Swan)

Between the Zenith and Aquila is the head of the Swan.

Below Aquila is Sagittarius, and to the East of it is Capricornus.

In the N.N. E. is Auriga (the Kid.)

In the N.E. is Perseus, and above Perseus is Cassiopeia, the stars of which form the letter W. Between Cassiopeia and the Zenith is Cepheus.

orm the letter W. Between Cassiopeia and the Zenith is Cepheus.

In the N.W. is the Great Bear, and between that and the Zenith is Draconis.

From the Pole Star through Cassiopeia leads to Andromeda, then to Aries and below that to Cetus.

West of the Meridian is Lyra near the Zenith. W. of Aquila are Hercules, Serpentis and Ophiuchus. The Northern Crown is about midway between the Zenith and the Horizon.

The stars will be in the positions here described, at 1h a.m., on the 1st day of July; at about 11h p.m., on the 1st day of August; at 9h p.m., on the first day of September; at a ½ after 7 on the list day of October; at a ½ after 5 on the first day of November. For a general reconnoitre of the heavens on any intervening day, subtract a portion of time from the time given for the first day of the month, equal to 4 minutes for every day after the first day of the month, so that if it be for the tenth day subtract 40 minutes.

In the month of March we traced the path of the Milky Way then visible; the other part of it can be traced in the latter months of the year as follows:—

It was mentioned that when it was at its extreme South position, it divided itself into two portions; starting from the Horizon, the eastern part passes the constellation Scorpio, the bow of Sagittarius through Aquila, and upwards to the Eastern part of Cygnus; the other passes a part of Scorpio, the right side of Ophiuchus through Cygnus, where the two divisions unite and from thence proceed to Cassiopeia. The whole of this vast space appears, when viewed through a telescope, to be covered with minute stars, which are scattered so thickly as to have the appearance of gold dust on a dark ground.

Between the 10th day and the 15th day of November, and particularly during the nights of the 12th and 13th, it is believed by many persons that there is a periodical return of meteors, exhibiting, as stated by some persons, a very extraordinary shower of shooting stars. By some persons it is believed that they wholly originate within the limits of our atmosphere; by others that they are heavenly bodies of inconsiderable dimensions. In order to decide as to which of these classes the meteors belong, it is manifest to that end the first step should be to discover at what distance from the Earth they take place.

In order to arrive at this, if two persons in different places should observe the same meteor, noting the time of its appearance and of its disappearance, or of the latter only, and indicating the star near which it came in sight and the star near which it was extinguished, the distance from the Earth can be calculated.

Persons who may observe the meteors on those nights, would do well to note their direction, their number in a given time, and, if possible, the time of the duration and the time of the extinction of each; and, in particularly remarkable ones, such as those which leave a train of sparks—those of different colours—to note the star near which they become extinguished.

ASTRONOMICAL OCCURRENCES IN NOVEMBER.

	PLANET	s.		JUPITER'S	SATELLITES,	Occultation	OF STALS BY TI	HE MOON.
Names	Time of passing the Meridian, or Southing,	When near	Angular Distance from	Eclip 1st. Sat.	scs of 2nd. Sat.	Names of	Times of disappearance	At the dark or
	on the 15th. Day	the Moon	the Moon North or South	Immersion	Immersion	the Stars	and re-appearance	bright limb of the Moon
Mercury	H. M. 1 9 P.M.	D. H.	DEG.	D. H. M. 1 1 29 A.M. 2 7 58 P.M. 8 3 23 A.M.	D. H. M 4 9 6 P.M. 11 11 43 ,, 19 2 19 A.M.	δ¹ Sagittarii	D. H. M. 22 4 28 P.M. 22 5 40 ,,	Dark Bright
Mars	. 10 17 "	17 1 A.M.	1 North	9 9 51 P.M. 15 5 17 A.M. 16 11 26 P.M.	26 4 56 ,, 29 6 14 p.m.	β ² Capricorni	23 5 47 ,, 23 6 29 ,,	Dark Bright
Saturn Uranus	. 1 4 ,, . 6 11 P.M.	5 9 P.M. 25 Il A.M.	3 North 6 South	18 6 14 ,, 24 1 40 A.M., 25 8 9 P.M.	3rd. Sat. 7 5 26 A.M. 28 5 26 P.M.	to the second		

November 23d, 3h, A.M., Mercury's greatest East elongation being 22 deg .- (See September.)

November 3rd, 10th, and 23rd days, Jupiter's Satellites all four East of the Planet, and W. of him on the 11th day at about 2 o'clock in the morning.



PROVIDING FOR THE WANTS OF MARTINMAS AND THE COMING WINTER, DISPOSING OF STOCK, OR VICTUALLING FOR HOME CONSUMPTION; AND WITNESSING THE BULL-RUNNING.

NOVEMBER, the ninth (Novem) month in the Alban Calendar, became the eleventh by the insertion of January and February at the beginning of the year. Its name and term of thirty days have remained unchanged, while the other months have been lengthened and curtailed at pleasure. Our ancestors called it Blot Monath, from the Saxon blotan, to slay; for, in this month they killed and salted the beeves, bacons, and muttons, that were to furnish forth the Winter's hospitable board.

All Saints' Festival (Nov. 1,) or, as it was originally called, Allhallow Even Mass, was instituted by Boniface IV., when he obtained permission from the Emperor Phoeas, to convert the Pantheon at Rome into a Christian church: it was ordered to be kept in memory of the Virgin and All Martyrs, on the 12th or 13th of May; but, three centuries later, it was transferred to November 1, and All Saints substituted for All Martyrs; this day being set apart for their general commemoration, so that none who deserve to be commemorated by the Church should be omitted. Bells used formerly to be rung on this feast, and on the Vigil throughout the night, when also bonfires were lit: it is still kept as a Holiday at the Public Offices.

"The memories of the Saints, (says the pious Jeremy Taylor,) are precious to God, and, therefore, they ought also to be so to us; and such persons who serve God by holy living, industrious preaching, and religious dying, ought to have their names preserved in honour, and God be glorified in them, and their holy doctrines and lives published and imitated: and we by so doing give testimony to the article of the communion of saints. is best kept by giving God tnanks for the excellent persons, apostles, or martyrs, we then remember, and by imitating their lives: this all may do."

All Souls' Day, (Nov. 2,) is set apart by the Catholic Church for a solemn service for the repose of the dead: in this country, the day was formerly observed by ringing the passing bell, making soul cakes, blessing beans, and other customs. Various tenures, were held by services to be performed on this day.

The Landing of King William, (Nov. 4,) was formerly kept as a general Holiday, termed "Revolution Day." The centenary was celebrated with great pageantry in 1788, especially at Whittington, in Derbyshire, where the overthrow of James II. was plotted, in the "Revolution House."

Powder Plot, (Nov. 5,) is a parliamentary and general Holiday: it was appointed in 1605 as a day of thanksgiving, when all persons were required to go to ehurch, "to give unto Almighty God thanks, and have in memory this joyful day of deliverance." In Spelman's time, the Judges went to church in state, on this day. Bishop Sanderson, in one of his sermons, says: "God grant that we nor ours ever live to see November the Fifth forgotten, or the solemnity of it sileneed."

Lord Mayor's Day, (Nov. 9,) is still observed with a procession by land and

water, the only state exhibition in the metropolis that remains of the splendid City pageants.

Shakspeare has left us this picture of its glories:-

Suppose that you have seen The new appointed Mayor at Queenstairs Embark his royalty; his own company With silken streamers, the young gazers

pleasing, Painted with different fancies;—have beheld Upon the golden galleries music playing, And the horns echo, which do take the lead

is giotics.—

Of other sounds: now view the city barge
Draws its huge bottom through the furrowed
Thames,
Broasting the adverse surge. O do but think
You stand in Temple Gardens, and hehold
London herself, on her proud stream afloat;
Eros appears this fleet of magistracy,
Holding due courseto Westminster.—Henry V.

Martinmas, (Nov. 11,) was formerly kept with great feasting; one of the delicacies being a fatted goose. In some Church expenses on this day, we find entries of "bred and drynke for the syngers," "rose garlands, wyne, and ale." Victualling, or laying in of meat, and curing it for winter consumption, was the business of this day.

Queen Elizabeth's Accession, (Nov. 11,) was long observed as a Protestant Festival; and with the Society of the Temple; the Exchequer; Christ's Hospital, Westminster, and Merchant Tailors' Schools; it is still kept as a Holiday.

St. Ceciha, (Nov. 22,) is regarded as the patroness of Music, her skill having been, traditionally, so great, that an angel who visited her, was drawn from the mansions of the blessed by the charms of her melody; to which Dryden alludes in his celebrated Ode to Cecilia. Milton has, also, some lines on this day, in his Il Penserosa. Concerts were common on St. Cecilia's Day, in the times of Dryden and of Pope.

St. Andrew, (Nov. 30,) is the tutelar Saint of Scotland: he suffered martyrdom on a cross in the form of an X; which is introduced as part of the insignia of the Scottish order of the Thistle. St. Andrew stands first among the Saints in the Prayer Book arrangement, because he first found the Messiah (John i. 18). Advent Sunday is, therefore, the Sunday nearest this Feast. St. Andrew's Feast is kept as a Holiday at the Bank, Customs, and Excise.

November was said by the ancients to be under the tutelage of Diana; from hunting and field-sports being general in this month. The cheerful and lively music of several packs of Harriers and of Beagles, in full cry, are now often heard, reminding us of

Thy hounds shall make the welkin answer them, And fetch shrill echoes from the hollow carth.—Sharspeare,

Our artist has depicted the old barbarism of Bull-running, formerly practised in certain places, on the day six weeks before Christmas; as at Stamford and Tuthury. The hivie-skivie, and tag-and-rag of the scene are thus described in a ballad of the early part of the last century :-

Before we came to it, we heard a strange shouting, And all that were in it looked madly; For some were a Bull-back, some dancing a Morrice, And some singing Arthur O'Bradley l

NOVEMBER.

BIRDS are generally minte during the month, except the robin, the wren, and the thrush, which frequently break out into song as in the summer. The goldfinch, also, may sometimes be heard, and as cheerily in the midst of fog as in the brightest sunshine.

The following birds assemble in numerous flocks—greenfinches, house-sparrows, skylarks, fieldfares, redwings, starlings, chaffinches, and the long-tailed titmouse.

During the month, the following birds may be expected to arrive from the North, or from the mountainous parts of the country. The stock-dove, the golden-plover, the widgeon, the Bohemian wax-wing, and the golden eye-duck.

The Stock-dove, or wild-pigeon, is in length fourteen inches, the bill red, and enrved at the point; the head, neck, and upper part of the back, are of a bluegrey; the rump and belly grey, feet dull-red, and the claws black.

The Golden-plover is of the size of the turtle. Bill dusky, eyes black; all the upper parts of the plumage are marked with bright-yellow spots upon a darkbrown ground; the fore part of the neck and the breast are the same, but much paler; the belly is almost white; the quills are dusky; the tail is marked with dusky and yellow bars; the legs are black—(See Bevick's British Birds)

The Widgeon quits the desert morasses of the north on the approach of winter; in its general shape it much resembles the duck; its length is about twenty-three inches, and weighs about twenty-three ounces. The bill is narrow, about an inch and a half in length, of a blueish-lead colour, tipped with black. The crown of the head is of a cream colour; the rest of the head, the neck, and the breast, are classimit; the belly to the vent is white, the ridge of the wing is ash-brown.

The Bohemian Wax-wing. This is a very beautiful bird; it is about eight or nine inches in length, and about three onness in weight. The bill is black at the tip, the chin and throat are deep velvet-black. The feathers on the crown are long and silky. These birds sometimes appear in numerous flocks; and sometimes they are not seen for many years together. In 1810, they were numerous, and none were seen for ten or twelve years afterwards.

The Golden-eye Duck is named from the colour of the iris of the eye, which is very brilliant, of a bright-yellow colour, and shines like a spot of gold on the side of the head.



THE COMMON SNIPE.

The Common Snipe is very numerous during this month; it is about nine inches in length, exclusive of the length of the bill, which is three inches. Its breadth, in the stretch of its wings, is about fifteen inches. The weight, when full grown, is about a quarter of a pound. The bill is flattened, and of a dull-reddish colour at the base, yellowish in the middle; rough and brownish at the tip; it is generally very smooth in the living bird; but from its soft consistency, in consequence of eontaining more living substance than a hard bill, becomes shrivelled and loses its e olour after death. The top of the head is of a russet colour, marked with three streaks of pale brown, that one, which is the best defined, passes over the middle of the head, and the others form a semi-circular band over each eye; from the gape over the eye, and down the side of the neck, runs a dark brown streak; from the eorners of the mouth a dark brown mark extends nearly to the eye, and continued after it passes the cye; the chin, throat, and fore part of the neck, are of a very pale brown with irregular markings of a darker colour; and the rest of the under parts are white. The back is black, with reflections of green and brown. The feathers on the shoulders are clegantly striped lengthwise, and barred across with black and yellow; the wings are of a dusky brown; the quills are tipped with white; the tail is composed of fourteen feathers; the legs are slender, varying in colour in different subjects, some being of a light green, and others of a dark-slate colour; the toes are long, and delicately slender; the colour of the eyes is hazel, and are placed so far backwards in the head as to command the

whole horizon without turning. And it is in this that their safety lies, they being without any weapon of defence.

The bill is a very curious instrument, and seems to be possessed of a very keen sense of smell. They bore into the soft sludgy ground for some distance for their food, and as they bore directly down upon it, they must seent it from the surface. The head extends over the bill in all directions, and, therefore, its weight is always ready to assist the bill, in its laternal twistings, as it is bored into the sludge. Its food consists principally of small worms, and it is said also to cat slugs, which breed abundantly in its usual haunts.

The haunts of the snipe are in marshy places, and usually where there is an abundance of tall aquatic herbage to conceal themselves and their nests. In these places, when undisturbed, it is continually pacing the ground, with its head erect. And at short intervals it moves its tail from side to side. It is a sly bird, and extremely watchful; therefore, is difficult to approach. On perceiving the sportsman and his dog, which it does at a great distance, it immediately conceals itself among the variegated withered herbage, so similar in appearance to its own plumage, that it is almost impossible to discover it while squatting motionless in its seat.

When alarmed, the snipe utters a shrill whistle, and rises with considerable noise; it flies with great swiftness, and after having been roused two or three times, it is difficult to get within shot.

The snipe is migratory, and is met with in all countries. They leave Great Britain in the Spring, and return in the Autumn; it has been well ascertained that many remain and breed in various parts of the country, but their disappearance from the low grounds is complete during the Summer. The love cry of the male begins in March or April, according to the season, and he continues to call till a partner answers. The female makes her nest in retired and inaccessible parts of the morass, and it is rudely constructed of withered grasses and a few feathers. The cggs are four or five in number, of a greenish colour, with brown spots. The young, as is the habit with most ground birds, come out of the shell covered with down, and with their feet so well developed, that they very speedily are able to find their own food, the parent birds, however, attending them till their bills have aequired sufficient firmness to be able to assist themselves readily.

Insects are scarce; many flies, before this time, have become blind and have died; some, however, still continue, and a few will be seen even to Christmas.

The common blow-fly, or musca carnaria, is hairy, black, with its abdomen slining. As every one knows, it deposits its eggs on animal flesh, either fresh or putrid. The eggs are hatched in a few hours, and the maggots, when full grown, which is in eight or ten days, are of a yellowish white colour, with a slight tinge of pale-red. This maggot is of a lengthened shape, with a pointed front, in which the mouth is situated, and from this the body gradually increases to the other end, which is broad and flat, and on which are two specks resembling eyes, so that a person might take this for its head, and the head for the tail. The insect afterwards changes to a chrysalis, the skin dries round it, and the whole becomes of an oval form. In ten days more, the fly emerges, which is too well known to need further description.

These insects are of great service in the economy of nature, their province being the consumption of decaying animal matter. It was asserted by Linnæus, that three of these flies would consume a dead horse as quickly as a lion. This was, of course, with reference to the offspring of such three flies; and as a single female, in the course of a few days, lays 20,000 eggs, the maggots of which, being so exceedingly voracious, that in the course of the first twenty-four hours, they increase in weight more than two hundred times; it is very possible the assertion is correct.

Musca mcteorica; this fly is very troublesome to horses in summer; it is black; abdomen a pale grey; wings yellowish at the base; they have an aversion to elder—a branch of which, placed on the head of the horse, frequently saves both horse and rider much annoyance. They come in swarms before rain, like the species pluvialis, so called from the circumstance of vast swarms appearing before rain; this last mentioned species has five black spots on its back; and its abdomen has obsolete spots on it.

The domestic fly is an exceedingly abundant species; its face is black, with buff sides; forehead yellowish, with a black band; antennæ black; the back with five pale lines; the abdomen has black markings; legs black; wings clear, with the base yellowish. This fly, as is well known, is capable of walking upon the ceilings of rooms, with its back downwards, or upon highly polished glass; in which situation its body is not supported by its legs. From the experiments of Sir Everard Hone, it appeared that this was effected by the formation of a vacuum, by means of the close application of the edge of the feet, and the subsequent muscular raising of the central parts, so that the pressure of the atmosphere acted upon the outer sides of the feet, and not upon the inner.—(See Philosophical Transactions, for 1816, pages 149 and 322.)

Mr. Blackwall has published a paper in the *Linnwan Transactions*, based upon a careful set of experiments, and he eonsiders that an adhesive secretion is emitted, by means of which, they adhere to whatever place they may alight.

The hawthorn, though stripped of its leaves, is yet attractive, from the circumstance of being covered with berries; in our gardens the Virginian creeper, and various kinds of chrysantbemums are in flower. We are indebted to China for these antumnal gifts, which so considerably shorten the winter of our gardens; formerly at this time the floral season was ended:—

All green was vanished, save of pine and yew, That still displayed their melancholy hue; Save the green holly, with its berries red, And the green moss, that o'er the gravel sprea.



M	w	AVAILUTED OF THE COMMENT OF THE COMME		Sun		1/4	M	loon.					er at	Lon-II	Equa		
D	D	ANNIVERSARIES, OCCURRENCES, AND FESTIVALS.		es—R. I	Declina on Sout		ses—R.	Sou	ths.	Age	_	on Br	After	noon	of Ti Subtr		Day of the Year
			H.	м. с	0 /	н	. BI.	н.	M-	n.	H.	31	н.	M	AT.	8.	
1		Mars rises at 5h. 8m. A.M.	7	46R 2	21 49) Nr.	orning.	11	0	13	0	17	0	42	10	47	335
2	W	Napoleon crowned, 1804-St. Paul's finished, 1710	3	52 s 2	21 58		51 s	11	54	0	1	10	1	34	10	24	336
3	Тн	Belzoni died 1823	7	48R 2	22 /	7	ernoon.	Mor	nine	15	1	56	2	17	10		337
4	\mathbf{F}	Saturn sets at 9h. 47m. near W.S.W.	3	51 s 2	22 1		- D	0	48	16	2	38	2	59	9	37	338
5	S	Mozart died, 1792—Battle of Austerlitz, 1805	7	51R2	22 23	3 6	45^{R}	1	40	17	3	20	3	39	9	12	339
6	S	2ND SUNDAY IN ADVENT-St. Nicholas-St.	3	51 s 2	22 30	0 7	46 R	2	30	18	3	58	4	16	8	47	340
7	M	Nicholas was Archbishon of Myra in Casass A D 200 Mais regarded as	7	53R 2	22 3	7 8	49 R	3	17	19	4	35	4	53	8	21	341
8	Tu	the patron saint of children and mariners, prohably in consequence of his he- nevolent zeal in the protection of orphans and stranded seamen. Churches huilt near the sea are, in many instances, dedicated to St. Nicholas	3	50 s 2	22 4	4 9	51 R	4	2	20	5	11	5	52	7	55	342
9	W	Colley Cibber died, 1732	7	56 R 2	22 5	0 10	54 R	4	46	21	5	50	6	10	7	29	343
10	Тн	Grouse shooting ends-Charles XII. killed 1718	3	49 s 2	22 5.	5 11	57 R	5	29	0	6	33	6	54	7	1	344
11	F	Awfulslaughter of British troops in Affghan, 17,000	7	58R 2	23	1	amain a	6	11	23	7	17	7	45	6	34	345
12	S	Old St. Andrew's Day [lives lost, 1842]			23	$5 \mid \mathring{1}$	orning.	6	54	24	8	17	8	52	6	6	346
13	5	3RD SUNDAY IN ADVENT—St. Lucia	8		23 1	$0 \mid 2$	4 R	7	38	25	9	24	9	58	5	38	347
14	M	Izaak Walton died, 1683, aged 90	3	49 S	23 1	$4 \mid 3$	10 ^R	8	24	26	10	30	11	2	5	9	348
15	Tu	Lord Stanhope died, 1816, aged 63	8	1 R 2	23 13	7 4	17R	9	12	27	11	34		- 1	4	40	349
16	W	Camb. Term ends—Mars rises at 5h. 6m. A.M.	3	- 4	23 20	0 5	25 R	10	4	28	0	3	0	27	4	11	350
17	Тн	Oxford Term ends—Jupiter sets at 6h. 49m. A.M.	8		23 25	2 6	30R	10	59	29	0	46	ì	10	3	1	351
18	F	Bolivar died, 1830—Saturn sets at 8h. 58m. A.M.	3		23 2	1 7	32R	11	56		1	33	1	55	3		352
19	. ~	URANUS, or HERSCHEL, sets at 1h. 9m. after mid-		5 R 2		6		A 64	-	1	2	16	$\tilde{2}$	38	-	- 1	353
20	5	4TH SUNDAY IN ADVENT [night			23 22	7 6	ernoon.		52	$\frac{1}{2}$	3	0		22	$\bar{2}$		354
21	M	St. Thomas, shortest day.—A festival of the Eng-	100	-	23 2	7 7	54 s	2	48	3	3	43	4	6	1		355
22		lish Church. It was customary in England to go a-gooding on St. Thomas's	3	- 1	23 27	7 9	12 s	3	43	4	4	27	$\hat{4}$	51	ī		356
23	w	lish Church. It was customary in England to go a-gooding on St. Thomas's Day; that is, they went about hegging money, and presenting in return sprigs of palm and hundles of primroses, probably with a view to the deco-	8	6R 2	23 2	7 10	30 s	4	36	5	5	12	5	37	Ô	_	357
24	Тн	christmas Eve—Length of Day, 7h. 46m.	3	52° 2	23 20	3 11	48 s	5	28	6	6	2	ó	27	Ade		358
25	E	CHRISTMAS DAY	8		23 2	5		6	19	D	6	53		$\frac{2}{22}$		1	359
26	ŝ	St. Stephen—Saturn sets at 8h. 31m. P.M.	3	.)	23 23	11 1121	orning.s	7	10	8	7	51		$\frac{1}{23}$	_		360
27	5	1st Sunday After Christmas—St. John the			23 2	$1 \parallel \frac{1}{2}$	-	8	1	0	9	0	-	35	ĭ		361
28	M	Innocents—Mars rises at 5h. 5m. A.M. [Evangelist		- 1-	23 18	- 11		8	54	10	10	10	-	50	1		362
20	To	Jupiter sets at 6h. 6m. A.M.	8	-	23 13			0	46	11	11	25	11	57	2	- 0	363
30	W	Venus sets at 4h. 11m. P.M.	3	0	23 1	$\frac{7}{1}$	30 S	10	30	12	1 1	20	0	27	2	-	364
31	Tre	Silvester—Mercury rises at 6h. 16m. A.M.	Q	0 R 9)3 ,	7 6	3/1 S	11	31	13	0	53	1	18			365
01	1 H		0	J -	DEC	TIMA	TIONE	11	OI	10	r A NTI		1	10		10	000
		RIGHT ASCENS	NOI	5 ANL	DEC	LINA	TIONS	OF	IH	E P.	LANI	113.					

	-			RIGHT	ASCEN	SIONS AN	D DECL	INATIONS	OF THE	E PLANET	S.		
Times of changes of the Moon, and when she is at her greatest distance	Days	MERCI	JRY.	VENI	8.	MAR	s.	JUPIT	ER.	SATU	an.	URAN	US.
(Apogee,) or at her least distance (Perigee,) from the Earth, in each Lunation.	the M.	Right Ascension.	Declina- tion South.	Right Ascension.	Declina- tion South.	Right Ascension.	Declina- tion South.	Right Ascension.	Declina- tion North.	Right Ascension.	Declina- tion South	Right Ascension.	Declina- tion North.
Full Moon 2d. 10h. 46m. P.M.	1	17h. 50m.	240 51/	16h. 14m.	20° 52′	14h. 35m.	140 41'	4h. 42m.			14° 36′		
Third Quarter 10th 9 16 ,,	6			16 41		14 48	15 44	4 39	21 25		14 30		3 30
New Moon 18 0 42 ,,			21 31		22 57		16 45	4 36	21 19		14 22		3 29
First Quarter 25 6 36 A.M.		16 52	19 47		23 34		17 43	4 33	21 15		14 15		3 28
Apogee 9 11 PM.		16 41		18 3	23 53		18 38		21 10		114 6		3 28
Perigee 21st 4 ,,	26	16 47	19 47	118 30	23 53	15 43	19 28	4 28	121 6	21 59	113 57	0 39	3 29

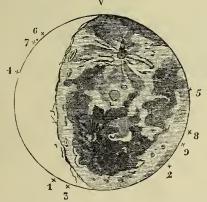
DECEMBER.

DUBING the month of December, Jupiter is very favourably situated for observation (see remarks on him in January and February). During the first few days he will be readily found by considering a line drawn from \$\beta\$ Auriga to Aldebaran, and at the distance of 6° from the latter star he will be shining brilliantly; he also may be found by considering a line drawn from ξ Orionis through γ Orionis (see the month of March) which passes a little to the W. of Jupiter; as the month advances he approaches nearer to Aldebaran, and on the 27th day the Planet will be directly over Aldebaran at the distance of 5 degrees.

The Planet Saturn will be visible during the early part of the evening, and he may be found in the same manner as explained in October. There is no other Planet visible, during the month, to the naked eye. Uranus is favourably situated

at about 7 P.M., to those persons who have telescopes.

The month of December is distinguished this year by the great number of stars occulted by the Moon. On the 29th there will be two stars in Taurus, which will disappear at the dark limb of the Moon, and will reappear at the bright limb, and one other star will just graze the Moon. And on the 31st day there will be two other stars, which will disappear and reappear. To facilitate these observations, and to enable persons to know at what points of the Moon to look for these several disappearances and reappearences, we give the following engraving. The letter V on the top of the Moon refers to the highest point of the Moon, at the times of the phenonoma. The Moon at the time is about 11 or 12 days old.



The disappearances are all at the dark side of the Moon, and of course at some distance from the illuminated portion; that of 81 Tauri will disappear at that part of the Moon marked 1 at 6h. 55m., in the evening, and it will reappear at the bright limb at 7h. 44m., at that part marked 2; at 7. 57 the Star δ2 Tauri will just touch the Moon at the part marked 3, or it will graze along the Moon's border. At 8h. 19m., the Star δ3 Tauri will disappear at the place marked 4, and it will reappear at the place marked 5, at 9H., 33M. These occurrences will all take place on the 29th day; and the stars are of the 4th magnitude. On the 31st day at 2H. 29M., in the morning the Star 119 Tauri will disappear behind the Moon at the part marked 6, and at the part marked 7 another Star 120 Tauri will disappear at 3H. 28A.M; these two stars will reappear respectively at the bright limb, at the parts marked 8 and 9, at 3H. 49A.M., and at 4H. 26A.M.

To observe these phenonoma it is necessary to use a telescope, as very many of the Astronomical Appearances and Occurrences treated of during this year, to see them properly, require a telescope; and, as many persons who are not much accustomed to the use of telescopes may not adjust them properly for use, we will conclude this part of our treatise by a few words upon their adjustments.

It must be borne in mind that the adjustment of a telescope requires altering with every change of eye, and with every variation of the distance of the object viewed.

Opticians generally draw a line round the tube, at that place where, if the eyetube be placed, objects at a certain distance viewed through the telescope by an ordinary eye, will be most distinct; but this arrangement needs altering for any other eye, and for the same eye at different distances. Therefore, every person should adjust the telescope for his own eye; this may be done as follows:-hold the telescope by one hand, the eye-tube by the other, whilst looking at any object, and withdraw the eye-tube gently, then the object viewed will either gradually increase in clearness or it will gradually become indistinct; if the former, continue withdrawing, till the eye-glass approaches its proper distance from the objectglass, and when it is at its proper distance, the object will be seen perfectly distinct and well defined; if the eye-tube be drawn further out, the object will again become indistinct, and in that case it must be pressed in again. Practice, to do this readily, is necessary, but a very little will enable a person to obtain that position at which the most perfect distinctness can be obtained.

The greater the magnifying power of a telescope, the greater necessity for an accurate adjustment of it.

If you should wish to view a terrestrial object at a greater distance or at a less distance than another, for each variation a corresponding change must be made in the distance between the eye-glass and the object-glass. Suppose at a greater distance, then the two glasses must be brought a little nearer together by pressing in the eye-tube; if at a less distance, by withdrawing the eye-tube.

If a person usually wear spectacles, such persons should look through the telescope with their spectacles on, if the adjustments have been made by another person with an ordinary eye: if they remove their spectacles they must adjust the telescope for themselves.

All good telescopes are most distinct in the centre of the field of view; it is therefore desirable to keep an object exactly in the middle of the field. A telescope once adjusted for celestial objects needs no change of adjustment for any of them.

We have now merely to remark, that in the Astronomical occurrences of each month, we have given the times at which the Plancts pass the Meridian, and i the Sun be below the horizon at such times, they are the best times for looking at them, and if the Sun be not below the horizon, the best times are the nearest to those times when he is beneath the horizon. It will be recollected that for a few hours before the times the Planets pass the Meridian they are always East of the Meridian, and they are W. afterwards. The times are given when the Moon passes the nearest to the Planets in her monthly course, with the angular distance they are from the Moon at such times. If the directions for estimating angular distances given in the month of October be understood, the spot occupied by the Planet will be known at once. The Eclipses of Jupiter's Satellites were explained in January and February. The occultations will be understood by what has preceded, and the other occurrences generally explain themselves.

We trust, therefore, that with this information, and the accurate representation we have endeavoured to give of each class of Astronomical Appearances this year, with the above remarks on the adjustment of telescopes, will enable some of our readers who have telescopes, to observe those appearances to advantage. Those appearances it is almost impossible to describe by words; but, being correctly represented, they will be readily understood; and it must be borne in mind that, to sec an Astronomical phenomenon well, it is imperatively necessary to know the nature of the phenomenon; the exact place to look at, and what to look for; it is these desiderata we have endeavoured to supply.

To those who have not telescopes, we have given the best substitute for them by describing and accurately representing the several phenomena.

All the drawings of pbenomena are as they would appear to the naked eye, or as they would appear through a telescope that does not invert; but, if the book bo turned upside down, and the leaf turned over and viewed from that side, they will appear as through a telescope that does invert.

ASTRONOMICAL	OCCURRENCES	1N	DECEMBER.

	PLANET	rs.		Jupiter's	SATELLITES.	OCCULTATION	OF STARS BY T	ne Moon.
	Time of passing		Angular	Eclip	oscs of	1	Times of	
Names	the Meridian or	when near	Distance from	1st. Sat.	2nd. Sat.	Names of the	disappearance	At the dark for bright limb
	on the 15th. day	the Moon	the Moon North or South	Emersion	Emersion	Stars	rc-appearance of the Star.	of the Moon.
Mercury	н. м. 11 22 а.м.	р. н. 17 1 р.м. 18 2 р.м.	DEG. 1 South 5 South	D. H. M. 10 2 7 A M. 11 8 35 P.M. 17 4 2 A.M.	D. H. M. 6 11 27 P M. 14 2 3 A.M. 21 4 40 ,,	119 Tauri {	D. n. M. 3 5 17 P.M. 3 5 47 ,, 3 5 41 ,,	Bright Dark
Mars	9 38 ,,	15 10 р.м.	2 South	18 10 3) P.M. 20 4 59 ,, 26 0 25 A.M	24 5 58 P M 31 8 35 ,,	μ Geminorum {	3 6 27 ,, 5 0 55 A.M. 5 2 12 ,,	Bright Dark Bright
Jupiter · .	10 57 р.м.	3 At Midnight	3 North	27 6 54 P.M.	3rd. Sat.	κ Cancri {	7 9 46 р.м.	Dark
Saturn	. 4 19 ,,	22 8 P.M.	6 South		D. н. м. 5 11 46 р.м.	21 Piscinm	7 10 32 ,, 24 6 35 ,, 24 7 32 ,,	Bright Dark
Uranus	. 7 3 "	25 8 ,,	2 South		13 3 47 A.M.	For 119 and 120 Tauri &c., see above		Dark Bright

December 2d, 7h, A.M., Mercury stationary with respect to the fixed Stars.—(See September.)
December 2nd, at about midnight, all four of Jupiter's Satellites W. and on the 6th day all four E. of the Planet.
December 11th, 6h, A.M., Mercury at the least distance from the Sun.
December 11th, at Midnight, Mercury in inferior conjunction with the Sun.—(See September.)
December 16th, 1h, A.M., Venus in superior conjunction with the Sun.—(See May.)
December 22nd, 4h. 12m, the Sun enters Capricornus, and Winter commences.

THE ILLUSTRATED LONDON ALMANACK FOR 1846. DECEMBER. December fell, bilth sharp and snell, Mixen flowers creep in the ground; Then man's three-care, bold sake and story, The man's three-care, bold sake and story. The star and sen, and text by the man's three-care, bold sake and story. The star and sen, and text by the man's three-care, bold sake and story. The star and sen, and text by the man's three-care, bold sake and story. The star and sen, and text by the man's three-care, bold sake and story. The start and sen, and text by the man's three-care, bold sake and story. The start and sen, and text by the man's three-care, bold sake and story. The start and sen, and text by the man's three-care, both sake and story. The start and sen, and text by the man's three-care, but sake and story. The start and sen, and text by the sake and story. The start and sen, and text by the sake and story. The start and sen, and text by the sake and story. The start and sen, and text by the sake and story. The start and sen, and text by the sake and story. The start and sen, and text by the sake and story. The start and sen, and text by the sake and story. The start and sen, and text by the sake and story. The start and sen, and text by the sake and story. The start and sen, and text by the sake and story. The start and sen, and text by the sake and story. The start and sen, and text by the sake and sen, and the sake and sen, and the sake and the sake and the sake and text by the sake and the sake and the sake and the sake and

THE FINE OLD ENGLISH GENTLEMAN WELCOMING AT HIS GATE A BAND OF MUMMERS, TO SHARE WITH HIM, AND ENLIVEN, THE FESTIVITIES OF CHRISTMAS.

DECEMBER, the tenth (from Decem), and last month of the Alban and carly Roman parishioners. Still these Carols differed materially from those of earlier times.

DECEMBER, the tenth (from Decem), and last month of the Alban and carly Roman Calendars, is also the last month of the modern year. In this mouth, the Romans celebrated their Saturnalia, when slaves were on an equal footing with their masters. The Saxons, before their conversion to Christianity, called December Winter-Monath; but, after that, added to it the appellation of Haligh, or Hally, in commemoration of the Nativity, which has always been celebrated in this month; although the true time of our Saviour's birth is placed in August.

St. Nicholas's (Dec. 6) legends relate such marvellous instances of his early conformity to the observances of the Roman Church, as entitled him to the appellation of the Boy Bishop. The choice of his representative in every cathedral church in this country continued till the reign of Henry VIII.; and, in many, large provision of money and goods was made for the annual observance of the festival of the Boy Bishop, which lasted from this day until Innocents' Day (Dec. 28), during which the utmost misrule and mockery of the most solemn rites were practised and enjoined. Of these customs, the Montem at Eton is a corruption: it is celebrated triennially; the last Montem was in June, 1844.

Christmas Eve (Dec. 24) is celehrated hecause, Christmas Day, in the primitive Church, was always observed as the Sahhath Day, and, like it, preceded hy an Eve, or Vigil. Superstition, ever sweet to the soul, was doubly prompted by the sanctity of the season. It was once believed that at midnight, all the cattle in the cow-house would he found kneeling; that hees sang in their hives on Christmas Eve, to welcome the approaching day; and that cocks crowed all night with same object: to the latter, Shakspeare alludes in Hamlet:—

Some say that even 'gainst that hallow'd season, At which Our Saviour's birth is celebrated, The Bird of Dawning croweth all night long.

The ceremonies and amusements of this season are too numerous for us to describe. The Waits, or more properly Wakes, usually commence their nocturnal serenades about the middle of the month, and play nightly till Christmas Day. Although the music now played is secular, the custom originated evidently in commemoration of the early salutation of the Virgin Mary before the birth of Jesus Christ, or the Gloria in Excelsis, the hymn of the angels—the earliest Christmas Carol: the word Carol is from the Italian Carola, a song of devotion, (Ash); or from cantare, to sing, and rola, an interjection of joy, (Bourne.)

Carols are yet sung at Christmas in Ireland and Wales; but, in Scotland, where no Church fasts have heen kept since the days of John Knox, the custom is unknown. On the Continent it is almost universal: during the last days of Advent, Calabrian minstrels enter Rome, and are to be seen in every street, saluting the shrines of the Virgin-mother with their wild music. Within the present century, the singing of Carols began on Christmas Eve, and were continued late into the night. On Christmas Day, these Carols took the place of psalms in all the churches, the whole congregation joining; and at the end the clerk declared in a loud voice, his wishes for a merry Christmas and a happy new year to all the

parismoners. Still these Carols differed materially from those of earlier times, which were festal chansons for enlivening the merriment of Christmas, and not songs of Scripture history; the change having been made by the Puritans.

The decking of churches and houses with laurel and other evergreens, at this period, may be to commemorate the victory gained over the powers of darkness hy the coming of Christ. The gathering of Mistletoe is a relic of Druidic worship; and Holly was originally called the holy tree, from its being used in holy places.

CHRISTMAS DAY has heen set apart, from time immemorial, for the commemoration of our Blessed Saviour's hirth; when, "though Christ was humhled to a manger, the contempt of the place was took off by the glory of the attendance and ministration of angels." Christmas is named from Christi Missa, the Mass of Christ. It was, however, forbidden to he kept as a fast hy the Council of Braga, A.D. 563; which anathematised such as did not duly honour the birthday of Christ, according to the flesh, but pretended to honour it by fasting on that day; a custom attributed to the same conception which led to the practice of fasting on the Lord's day, namely, the belief that Christ was not truly horn in the nature of man. Since this Canon, we do not find any positive regulation specially affecting the observance of Christmas.—(Feasts and Fasts.)

To detail the hospitalities of Christmas would fill a volume, though our artist has grouped the most characteristic celebrities of the season. Here is "The Fine Old English Gentleman" welcoming to his gate a hand of Mummers, (masked persons,) and Minstrels, with their ludicrous frolies, not forgetting the Hobbyhorse Dance:—

We are come over the Mire and Moss: We dance an Hohby horse; A Dragon you shall see, And a wild worm for to flee.

The Loving-enp was borrowed from the Wassail-howl, though the latter was carried about with an image of Our Saviour. Here, too, is the bore's head, "the rarest dish in all the londe, and provided in honour of the King of hiss." Nor must we omit the Yule-log burnt on Christmas Eve; though the hringing it in with "Christmas Candles" is forgotten. Even the Mince-pies are assumed to be emblematical—their long shape imitating the cratch, rack, or manger wherein Christ was laid—(Selden). Christmas Boxes are of Pagan origin.

Although much of this custom of profuse hospitality has passed away, Christmas is yet universally recognised as a season when every Christian should show his gratitude to the Almighty, for the inestimable henefits procured to us by the Nativity of our Blessed Saviour, hy an ample display of good will toward our fellow men. "Hospitality is threefold: for one's family; this is of necessite; for strangers; this is of occurtesie: for the poore; this is charity."—(Fuller).

St. Stephen's Day, (December 26), is first in the days of Martyrdom: St. Stephen

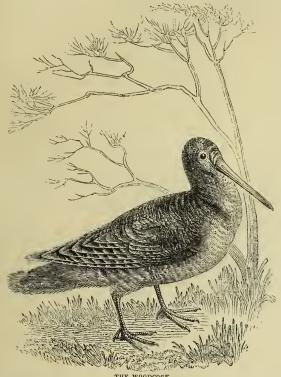
St. Stephen's Day, (December 26), is first in the days of Martyrdom: St. Stephen being a Martyr hoth in will and deed. St. John (December 27), being a Martyr in will, but not in deed, is placed second.

The Innocents, (December 28), being Martyrs in deed, though not in will, are, therefore, placed last.—(Elementa Liturgica).

DECEMBER.

BIRDS are generally mute during this month; the robin and the wren, however,

Woodcocks are the most abundant during this month. They do not arrive in large flocks, but keep arriving on our shores singly, or sometimes in pairs, from the beginning of October till December. The woodcock is about fifteen inches in length, twenty-seven in breadth, and weighs from twelve to sixteen ounces; bill three inches long, and is formed in much the same manner as in the snipe; the forehead is ash coloured, and all the rest of the upper part is barred with black and grey; the under parts are yellowish, with dusky streaks lengthwise; eyes



THE WOODCOCK.

large, situated near the top of the head; legs short; tail formed of twelve feathers, the two centre ones rather the longest. The colours, consisting of black, white, ash, red, brown, rufous, and yellow, are so arranged in rows, crossed and broken at intervals by lines and marks of different shapes, that the whole seems to the eyc, at a little distance, blended together, giving to the bird exactly the same appearance as the withered sticks, leaves, &c., which form the background of the scenery of its usual haunts.

The chrysalides of the cabbage, the swallow-tailed and the peacock butterflies may be found under sheltered projections; also those of most butterflies and moths in their accustomed situations. Insects, with the exception of a few moths, have disappeared

The vegctable kingdom is now in a state of repose, with the exception of the evergreens, and here and there a daisy, or a polyanthus. All appears leafless, and, in the words of Thomson-

Dread Winter spreads his latest glooms. And reigns tremendous, o'er the conquered How dead the vegetable kingdom lies!



SPRIG OF HOLLY IN FLOWER, AS 1T APPEARED IN MAY.

Though thus dead, yet there is much for a naturalist to observe. The rich appearance of trees and shrubs, by the crystallization of hoar frost, is frequently

very beautiful; and, if examined, the crystal will be found different in form on every different shrub and substance.

The cbrystalized forms of snow, too, is well worthy examination. There are more than fifty different forms known, some of which are exceedingly beautiful. The effects of snow are well worthy investigation. From experiments made by Mr. Glaisher, and published in the ILLUSTRATED LONDON NEWS of 1845, February 15th, it appeared that during the night common to the 11th and 12th of February, the effect of snow on grass caused the latter to be 32° warmer than grass not covered by snow. With a hope of being allowed to meet our friends another year, we close this division of the Almanack with the symbol of of the season; but, first, we will illustrate one of the changes alluded to below, by giving its appearance as it was in May, and its appearance as at present.



DRANCH OF HOLLY WITH BERRIES AS IT APPEARS IN DECEMBER.

Upon concluding this part of our Almanack, a few remarks may be excusable. The vast fields that Astronomy and Natural History embrace, would of course preclude ns from noticing other than small portions of these sciences. In the former, however, we have taken especial care that no important or interesting phenomena is omitted that will happen during the year, except, indeed, it be a new comet, of which, at present, we have no information. In the Natural History, we have noticed, in each month, the most interesting occurrences in that month; and, in detail, as far as is necessary for the general reader, and the recognition of the subject spoken of. In some cases we have entered into more particular details, where such would tend to remove either popular error or prejudice-such as in the case of the bittern, the blue titmouse, &c. And in some cases we have endeavoured to enlist a better feeling towards the despised of creation—as in the case of snails, &c. All animals are preyers, whatever be their kind of food; but, in the economy of nature, preying is preservation, not destruction, and tends quite as much to preserve the races preyed upon as those which are the preyers. Life, both in the vegetable and animal kingdom, is too abundant for the means of life. The former is almost unlimited; the latter is bounded by the quantity of matter that can exist in a particular form; and it is only the excess of life above the means of supporting it that is preyed upon. And it must be borne in mind that were no more of each kind produced, than were neeessary for the continuation of that kind, all means of nourishment would be at

Of this superabundance of vegetable life, snails, eaterpillars, &c., from their vast abundance, and their being most numerous where there is the most food, are evidently destined to perform an important part in the economy of wild nature. These, in their turn, are eaten by birds, the eggs of which of some are preyed upon by other birds, and these last again by rapacious birds; again, it is eaten by animals, as grass by many; the grass-eater in his turn becoming food for others. And thus the wholesome balance is kept, which is the best for all. And, if in any case one class becomes too numerous, the balance is still obtained by pestilence carrying off the superabundance. Thus we see, both in the animal and vegetable kingdom, the series goes on till mildew on trees, or, in other words, fungi (as in cases of the species Hydnum, (see July) feed upon the ruins of the largest trees, and in general upon anything of a vegetable nature, in a state of decay. The mould on cheese, and that on bread, are both a species of fungi. In the animal kingdom the caterpillar feeds on the carcase of the largest beasts.

Nature abounds everywhere. Our life, our means of living, depend upon a partial knowledge of it. And when we consider the variety of subjects, so varied-so beautiful-so well adapted for the fulfilment of their respective parts-can we doubt that a system so extensive, yet all connected, changeful, yet so constant; parts always decaying, and always renewing; ever changing, yet always the same-that all can be without a Maker more Mighty than it all. Again, look at our Astronomical article-how many occurrences are there predicted, yet every one will happen at the time predicted. But that part of which we have spoken, is only a small portion of the universe, which is beyond all conceivable bounds. The Maker of this majestic structure must be one, compared with whom all human thought, all human power, is as nothing.

The Heavens declare the glory of GOD, and the Firmament showeth His handiwork.

| Not ex. | Exceed.

600 30

STAMPS AND TAXES.

RECEIPT STAMPS.

			3.	d.		3.	
For £5 and	under	£10	 0	3	For £200 and nuder £300	4	0
10		20	 0	6	300 500	5	0
20		50	 1	0	500 1000	7	6
50		100	 1	6	1000 and upwards	10	0
100		200	 2	6	In full of all demands	10	0

N.B .- Persons receiving the money are compelled to pay the duty.

BILLS AND NOTES.

							2100		2000	
							2 mor	iths.	2 mor	aths.
							8.	d.	s.	d.
£2	and	under	£5	5s.			1	0	1	G
Above 5 5			20				1	6	2	0
20			30				2	0	2	6
30	• •		50		• •		2	6	3	6
50			100				3	6	4	6
100	• •		200				4	6	5	0
200		••	300			• •	5	0	6	0
300			500			• •	6	0	8	6
500			1000				8	6	12	6
1000			2000				12	6	15	0
2000		••	3000				15	0	25	0
Above	• •	• •	3000			• •	25	0	30	0

BONDS AND MORTGAGES.

				£	8.					£	s.
Any sum	not exce	eding	£50	1	0	Above 100	0 and no	t ex			
Above £3	50 and no	t ex-				1	ceeding		2000	6	0
	ceeding		100	1	10	2000		٠.	3000	7	0
100	••		200	2	0	3000			4000	8	0
200			300	3	0	4000			5000	9	0
300			500	4	0	5000	••		10000	12	0
500			1000	5	0						
Bonds	of every	1080	words	abov	re th	e first, 25s.		Mor	tgages,	20s.	

		Aľ	PREN:	TICES'	TŅDENTURI	ES.			
Under	£30			£1	For £200 an	id iinde	er	£300	£14
For £30 an	d under	£50	• •	2	300			400	20
50		100		3	400			500	2.
100		200		6	500			600	30

PROBATES OF WILLS AND LETTERS OF ADMINISTRATION.

Above the Value of	£ .	And under.	With a Wi	11.	Without a Will.
£		£	£ s.		
20		50	0 0		10s.
20	• •	100	0 10		
50		100	1 0		£1
100		200	2 0		3
200		300	5 0		8
300		450	8 0		11
450	••	600	11 0		15
600	••	800	15 0		22
800		1000	22 0		30
1000		1500	30 0		45
1500		2000	40 0	• •	60
2000		3000	50 0		75
3000		4000	60 0		90
4000		5000	80 0	••	120
5000		6000	100 0	• •	150
6900		7000	120 0		180
7000		8000	140 0		210
8000		9000	160 0		240
9000	• •	10000	180 0	• •	270
Т	he scale	e continues to i	ncrease up	to £1,000,0	000.

DUTIES ON LEGACIES

Of the value of £20, or upwards, out of Personal Estate, or charged upon Of the value of £20, or upwards, out of Fersonal Estate, or enarged upon Real Estate, &c.; and upon every share of Residue—To a child, or parent, or any lineal descendant, or aneestor of the deceased, £1 per cent. To a Brother or Sister or their descendants, £5 per cent. To an Uncle, or Annt, or their descendants, £5 per cent. To a Great Uncle or Great Aunt, or their descendants, £5 per cent. To any other Relation or Stranger in Blood, £10 per cent.—Legacy to Husband or Wife exempt.

If the deceased died prior to the 5th of April, 1805, the duty only attaches on Personal Estates, and by a lower scale.

LICENCES

For Marriage, if spec	cial	••			£5	0
Ditto, if not special			••	••	0	10
For Bankers			••	••	30	0
For Pawnbrokers, w	ithin th	e limits of	the twopen	ny post	15	0
Elsewhere			••		7	10
For Appraisers	• •			••	0	10
For Hawkers and Pe	edlars, o	n foot			4	0
Ditto, with one horse	8, 888, 0	r mule	••		8	0
Selling Beer, to be d	lrank or	n the Prem	risca	••	3	3
Ditto, not to be drur	nk on th	e Premise	8		1	1

DOGS.			
For every greyhound	£1	0	0
For every hound, pointer, setting dog, spaniel, terrier, or lurcher, and for every dog, where two or more are kept, of whatever			
denomination they may be (except greyhounds)	0	14	0
For every other dog, where one only is kept	0	8	0
Compounding a pack of hounds	36	0	Δ

Farmers with farms under £100 value, and shepherds, are exempt from dogs kept for the care of sheep.

Windows	Duty per Annum.	Windows	Duty per Annum.	Windows	Duty per Annum	Windows	Duty per Annum.
8 9 10 11 12 13 14 15	£ s. d. 0 16 6 1 1 0 1 8 0 1 16 3 2 4 9 2 13 3 3 1 9 3 10 0	16 17 18 19 20 21 22 23	£ s. d. 3 18 6 4 7 0 4 15 3 5 3 9 5 12 3 6 0 6 6 9 0 6 17 6	24 25 26 27 28 29 30 31	£ s. d. 7 5 9 7 14 3 8 2 9 8 11 0 8 19 6 9 8 0 9 16 3 10 4 9	32 33 34 35 36 37 38 39	£ s. d. 10 13 3 11 1 6 11 10 0 11 18 3 12 6 9 12 15 3 13 3 6 13 12 0

. By cap. 17, 3 and 4 Vict.. an additional £10 per cent is imposed upon all the Assessed Taxes, Customs, and Excise.

DUTIES ON CARRIAGES WITH FOUR WHEELS.

No.	Per carriage for private use.	No.	Stage coaches & post chaises.
	£ s. d.		£ s. d.
1	6 0 0	1	5 5 0
2	6 10 0	2	10 10 0
3	7 0 0	3	15 15 0
4	7 10 0	4	21 0 0
5	7 17 6	5	26 5 0
6	8 4 0	6	31 10 0
7	8 10 0	7	36 15 0
8	8 16 0	8	42 0 0
9	9 1 6	9	47 5 0

WITH TWO WHEELS. 3 4 1 5 10 0 11 3

For every carriage with four wheels, being of less diameter than thirty inches each, where drawn by ponies or mules, above twelve and not exceeding thirteen hands, per annum, £3 5s.; if with less than four wheels, and the ponies not exceeding twelve hands, and not let for hire, exempt. For every carriage with four wheels, drawn by one horse and no more, per annum, £4 los. Carriages with less than four wheels, drawn by one horse, without any metallic springs, and constructed and marked as described by Act 3 and 4, George IV, e. 39, and not exceeding £21 in value; also common stage carts, constructed for the earriage of goods, and occasionally used for riding, are exempt.

HORSE TAX. FOR RIDING OR DRAWING CARRIAGES,

No.	Eac	h Ho	orse	No.	Ľα	ch llo	rse.
	£.	s.	d		£.	s.	d.
1	1	8	9	11	3	3	6
2	2	7	3	12	3	3	6
3	2	12	3	13	3	3	9
4	2	15	0	14	3	3	9
5	2	15	9	15	3	3	9
6	2	18	0	16	3	3	9
7	2	19	9	17	3	4	0
8	2	19	9	18	3	4	6
9	3	0	9	19	3	5	0
10	9	"	<i>C</i> :	20	3	C	n

£. s. d. 1 8 9 1 8 9 Horses let to hire without post duty, and race-horses, each. 1 8 9 Horses rode by butchers in their trade, each 1 8 9 Where two only are kept, the second at 0 10 6 Horses for riding, and not exceeding thirteen hands, each . . . 1 1 0 One horse used by a bailiff on a farm 1 5 0 Other horses, thirteen hands high, and mules, each . . . 0 10 6 A husbandry horse, occasionally ridden by any one occupying a farm of less annual value than £100 is exempt; as are also horses employed by market gardeners in their business.

gardeners, in their business.

PENALTIES UNDER THE STAMP ACT.

For acting as an Appraiser without a license, £50.
For every Appraisement written upon paper not duly stamped, £50.
Apprentices' Indentures to state the real amount of premium in proportion to which the stamp duty is charged, on penalty of forfeiting double the amount of premium.

premium. For Alterneys and Solicitors acting without having been admitted, £100.—For acting without certificate, £50. For for drawing a Bill or Promissory Note upon unstamped paper, £50.—For post-dating Bills of Exchange, £100. For drawing a Check nore than ten miles from the place where made payable, £100.—For receiving the same in payment, £20.—For Bankers paying the same, £100.

£100. For setting out wrong amount in Conveyance. On the Attorney, £500. On the

purchaser £50.

For selling Patent Medicines, &c., without a license, £20. Without a stamp, £10.

F10.

For printing a Newspaper without first making affidavit as to the ownership, &c., £100. For delaying to enter each publication at the Stamp Office, £100. For printing without stamps, on each paper issued, £20.

For neglecting or delaying to enter Pamphets at the Stamp Office, or selling without paying duty when demanded, £20.

For Panohrokers taking pledges without a license, £50. For selling Plate without a license, £20.

For taking possession of the effects of any one deceased, without taking out

Letters of Administration, £100.

The difference is

HIGH

A TABLE of the difference between the Times of High Water at London Bridge and at the chief Ports and Places in Great Britain and Ireland, as formed from local Tide Tables, and the best works on Navigation:—

	COA	ST		ENGLAND.		
St Armas Tights	Add	н 2	. м. 23	Hull	Add	п. м. 3 53
St. Agnes Lights	Add	8		Humber River Entrance	Auu	3 23
Alderney Island	••	4	38	Ipswich	••	9 53
Arundel	••	9		Lands-end	••	2 23 9 15
Barnstaple Bar Beachy Head	::	9		Liverpool Dock Lynn Deeps	••	3 58
Bridgewater	••	4	38	Margate Pier	Subt.	2 2
Bridlington		2		Newcastle	Add	1 53
Bridport	••	9		Newhaven	Subt.	9 43
Bristol	••	5	8	Orfordness	Add	8 33
Cbatham	Subt.	1	13	Penzance	• •	2 23
Chichester Harbour	Add	9		Plymouth Dock-yard	••	3 26 4 9
Coquet Island	••	3		Portland Roads Portsmouth Dock-yard	••	9 33
Corn wall Cape		2		Ramsgate Harbour		9 13
Cuekold's Point	Subt.	0		Rye Harbour	••	8 33
Dartmouth Harbonr	Add	3 9	58 8	Scarborough	••	2 18 2 25
Deal Dover Pier	•••	9	3	Scilly Islands Sheerness Dock-yard	Subt.	2 25 1 28
Downs (Stream)	::	0		Shields	Add	0 53
Dungeness	••	8	43	Shoreham Harbour	••	9 8
Eddystone Lighthouse	••	3		Southampton	••	9 33
Exmouth Bars	••	4 3	18	Spithead (Stream)	••	7 23 3 13
Falmouth Flamborough Head		2		Sunderland	••	0 53
Foreland (North) Foreland (South)	••	9	33	Torbay		3 58
Foreland (South)		9		Tynemouth Bar	••	0 43
Gravesend	Subt.	0		Weymouth Whitby	••	4 23
Guernsey Pier Harwich	Add	9	23	Whitehaven	Subt.	1 38 2 51
Hastings	::		29	Yarmouth Roads		6 33
0.	00	. ar	m 0.			
	CO.	AS:		F WALES.		
Aberdovy	Add	5	м. 25	Cardigan Bar	Add	4 53
Aberystwith			23	Caernarvon Bar		7 13
Barmouth	••			Holyhead Bay	••	7 53
Beaumaris	• • •	8	19	Milford Haven Pembroke Dockyard	••	3 38 3 57
Caldy Island			53	Swansea Bay	• • • • • • • • • • • • • • • • • • • •	3 47
	COAS	T :	OF	SCOTLAND.		
	COM	п.	. 74	BOOTLAND.		н. м
Aberdeen Bar	Subt.	0	56	Kirkudbright	Add	9 8
Arran Island Banff	Add	9	8	Leith Pier	••	0 15
Cantyre (Mull)	Subt. Add	6	26 52	Lerwick Harbour	••	8 23 3 53
Cromarty	• •	9	38	Montrose	Subt.	0 22
Dee River	. Add	10		Pentland Frith	Add	8 23
Dunbar		0		Perth	d 3.4	3 21
Duncansby Head	Add	6	8 18	Peterhead	Subt.	1 22 9 38
Eyemouth	••	0	8	Port Glasgow	Add	9 38
Galloway (Mull) Grcenock		9	8	Stromness		6 53
	••	9	38	Tay Bar	Subt.	0 2
Inverness	Add	9	53	Wick	Add	9 0
	COA	ST		IRELAND.		
Achill Head	Add	n. 3	м. 53	Dublin Bar	Add	и и 9 5
Bally Shannon Bar		3	23	Dundalk Bar	Add	8 53
Baltimore	••	1	38	Dungarvon	••	2 23
Bantry Bay Belfast	••	1	39 58	Galway Bay Howth Harbonr	• •	2 23
Carlingford Bar			33	Killybegs	••	9 1
Cape Clear		1	53	Kingstown Harbour	••	9 6
Carrickfergus	••	8	22	Kinsale Harbour	•••	2 23
Cork Harbour	••		23 23	Londonderry		3 54
Dingle Bay Donagbadee Pier	••	7	8	Shannon Month Sligo Bay	••	1 43
Donegal		2	58	Tralee Bay		3 52 1 38
Downing's Bay		3	13	Waterford Harbour .		3 43
Drogheda	••	8	34	Wexford Harbour		5 22
CO	AST O	F T	HE	ISLE OF MAN.		
Air Point	Add	H.	M. 0		400	в. м 9 з
	2200	9	UI	Douglas Harbour	Add	9 3
C	OAST (OF		E OF WIGHT.		
Cowes	OAST (OF н. 8			Add	н. м
Cowes Dunnose	Add	H.	ISL 38 4	Needles Point Yarmouth	Add	н. м 7 38 7 24
Cowes	Add	н. 8			Add	н. м 7 38 7 24

To find the Time of High Water at any of these places we must proceed as follows:—Find the Time of High Water at London Bridge as given in the Calendar, and add the number opposite to the given place, or subtract it according as it has Add or Subt. prefixed to it; and the sum or difference is the time of High Water at that place. Attention must be paid to the following Notes:—

I. When the two numbers are added, if the sum be more than 12 hours, reject the 12 hours, and the remainder is the time of High Water in the afternoon, if the morning tide at London Bridge was taken, or the next day's morning tide, if the afternoon tide at London Bridge was taken.

II. If the interval at the given place is to be subtracted, and is greater than the time of High Water at London Bridge, increase the time at London Bridge by 12h., and then subtract, and the remainder is the time of High Water at the given place in the morning, if the afternoon tide at London Bridge was taken, or in the afternoon of the preceding day, if the morning tide was taken.

Example.—Required the time of High Water at St. Agnes Lights and Aldborough on the 1st of January, also at Chatham on the 9th day of January. The time of High Water at London Bridge is 4h, 15m. A.M., on Jan. 1. St. Agnes Lights (from preceding table) Add 2 23

The sum is the time of High Water at St. 6 38

The time of High Water at London Bridge is 4h. 15m. A.M., on Jan. 1. Aldborough (from preceding table) Add ...

Reject 12h. and the time of High Water at Aldborough on Jan. 1, is Oh. 53m in the afternoon.
On the 9th day, the time of High Water at A the order of the 10th day, the time of High Water at 6th. 4m. F.M. Add 12h, to this is .. 12 Chatham (from preceding table) Subt.

.. 10 51 And, therefore, the time of High Water at Chatham, on January 9, is 10h. 51m. in the morning.

It must be borne in mind that the varying pressure of the atmosphere as well as the direction of strong winds, have a great effect on both the times and the heights of High Water. Thus, in the North Sca, a strong N.N.W. gale and a low barometer, will raise the surface two or three feet higher than usual, and cause the tide to flow half an hour longer all along the coast to London, than the pre-

dicted times in the calendar.

An E. a S.E., or a S.W. wind will produce an opposite effect, so that at times the prediction may be in error half an bour or more.—(See foot note to page 256 of Greenzich Magnetical and Meteorological Observations for 1841.)

CALENDAR OF THE JEWS, FOR THE YEAR 1846.

5606		1845	,		NEW MOONS AND FEASTS.
Tebeth	1	December		30	
,,		1846	5	3	Sabbath
,,	10	January	••	8	Fast : Siege of Jerusalem
Schebat]	,,		28	
,,		i "		1	Elias
**		February	••	5	Xylophoria
"	23			19	Fast: Memory of the War of the Ten
Adar]			27	Tribes against Benjamin
**				5	Fast for the Death of Moscs
**		Marelı	••	11	Fast: Esther
,,	14			12	Purin: Feast of Haman
,,,,,	15			13	Schnseban Purim
Nisan	••			28	
**	18			11	Passover begins
**		April	••	12	Second day
**	2			17	Seventh day
**	2			18	Passover ends
**	20			22	Fast: the Death of Joshua
Ijar		<u>l</u> ,,		27	
**				3	Consecration of the Temple
**		May	• •	10	Passalı Schemi
11	18			14	Lag Beomer
Sivan		٠,,		26	Feast of the New Moon
**	(31	Pentecost Holidays, the Feast of Weeks
**				; 1	Second day
,,		June	••	9	Victory of Maccabeus
Tamuz	1			25	
,,,,	18			12	Fast: Seizure of the Temple by Titus
Ab		July	••	24	
	10			2	Fast: Tishabeab. Destruction of the
Elu1]			23	Temple
,,	3			25	Selihot: beginning of the 40 days prayer
11	_ 3			29	Consecration of the walls of Jerusalem
,,	29	'/ »		31	Fast of the end of the year 5606
5607		,,		21	
Tisri	1			-	Feast of the new year, 5607
,,		September		22	Second day
11	3			23	Fast: Death of Gedaliah
,,	. 7			27	Fast: for the Worship of the Golden Calf
17	10			30	Fast: Day of Atonement
**		October	• •	5	Feast of Tabernacles
,,	16	,,		6	Second day of the Feast
,,	21	,,,		11	Feast of Branches
,,	22	,,		12	End of the Feast of Tabernacles

Tebeth 20 ,, 27 Fast

21

14

29

Feast of the Law

Fast: for the Destruction of Jerusalem

Feast of the Dedication of the Temple

Fast: the Siege of Jerusalem

23

10

1263.

39 6

l November

Dsù'l-hedsché 1

Moharrem 1

25 December

Marchesvan..

Kisley

THE MONTHS OF THE TURKISH CALENDAR. (New year) falls on December 30, 1845. January 29, 1846. February 27, ... Hegira; 1262, Moharrem 1 Safar 1 Rebi el-Awwel 1 Rebi el-Accher 1 Dschemadi el-Awwel 1 March 29, April 27, May 27, .. Dschemadi el-Accher 1 .. Redscheb 1 .. June 25, Schaban 1 July 25, August 23, September 22, (Month of Fasting) Ramadan 1 Schewal 1 Dsù'l-Kade 1 (Bairam)

..

(New Year)

October 21.

November 20,

December 20.

HER MAJESTY'S MINISTERS.

OF THE	CABINET.
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	Duke of Wellington.
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	Lord Wharncliffe.
Y 7 7	Duke of Buccleuch.
	Right Hon. Sir J. R. G. Graham, Bart.
	Earl of Aberdeen.
	Lord Stanley.
WH . W . A	Earl of Haddington.
2 12 1 21 2 2 2 2 2 2 2	Earl of Ripon.
	Earl of Dalhousie.
GI II GII - D I - CY I	Y 10 0
D	
NOT OF TH	
	Earl Lonsdale.
0 4 4 777	Ifon. Sidney Herbert.
	Earl of Lincoln.
35	at a se
Vice-President of the Board of Trade and Master of the Mint	n Sil G. Mullay.
and Master of the Mint	Sir G. Clerk.
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TT TT 1	
T	
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Lords of the freasury	ring, Esq., W. Forbes Mackenzie, Esq.
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Lords of the Admiratey	Cordon Uon H Estaron
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	of the state of th
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	Dr. Nicholl
	AND.
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	Richard Wilson Greene, Esq.
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Lord Chamberlain	Earl Delawarr.

ord Chamberlain Vice-Chamberlain Master of the Horse Clerk Marshal and Chief Equerry Treasurer of the Household Comptroller of the Household

Master of Buck-hounds

Captain of the Yeomen of the Guard Captain of Gentlemen at Arms Lords in Waiting

Mistress of Robes

Ladies of Bedchamber

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Earl of Hardwicke, Lord Rivers, Lord Hawarden, Lord Byron, Earl of Warwick, Viscount Sydney, Earl of Morton, Marquis of Ormonde. Duchess of Buccleuch.

Duchess of Buccleuch. Countess Dunmore, Countess of Mount Edgenmbe, Marchioness of Douro, Vis-countess Canning, Lady Portman, Countess of Charlemont, Countess of Gainsborough, Viscountess Jocelyn.

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Grooms of Bedchamber	General Sir Geo. Anson, Capt. Francis Scymour.
Clerk Marshal	Major-Gen. Sir W. Wemyss.
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Snrgeons	Sir Benjamin Brodie, Bart., Benjamin Travers, Esq., Charles Aston Key, Esq.
Snrgeon Dentist	Alex. Nasmyth, Esq.
Chemist and Druggist	Peter Squire, Esq.
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LORD MAYOR.

Elected September 29th-Sworn in November 8th. The Right Honourable John Johnson, Dowgate, 1835. SHERIFFS.

Elected 24th Junc—Sworn in 28th September. William James Chaplin, Esq. John Laurie, Esq. UNDER SHERIFFS.

Mr. F. T. Bircham. Mr. David Williams Wire. ALDERMEN.

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THE FOLLOWING HAVE NOT FASSED THE CHAIR.

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Moon, F. G. Esq., Portsoken; 20, Threadneedle-street 1835 1840 1840 1840 1840 1842 1843 1843 1843 1844 THE FOLLOWING HAVE PASSED THE CHAIR. THE FOLLOWING HAVE PASSED THE CHAIR.

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mantle.

mantle.
Bushy Park, Queen Dowager.
St. James's Park, Prince Albert.
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Greenwich Park, the Earl of Aberdeen.
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Whittlebury Forest, Duke of Grafton. Waitham Forest, Lord Wellesley. Wychwood Forest, Lord Churchill.

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Comptroller, W. H. Barton, Esq.
Cluef Engraver, Wm. Wyon, Esq.
Assistant, J. B. Merlin, Esq.
Chief Medallist, B. Pistrucci, Esq.
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Private Secretary, Hon. G. C. Talbot.

Chief Clerk, J. G. Donne, Esq.

(By Patent) R. Eden, Esq.

Junior Clerk, Mr. W. Goodwin.

Keeper of Records, R. Eden, Esq.

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Registrar, H. B. Swabey, Esq.
Queen's Advocate, Sir J. Dodson, L.L.D
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D.C.L.

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FOREIGN AMBASSADORS AND CONSULS IN ENGLAND.

AMERICA, UNITED STATES OF.

Consulate Office, 1, Bishopsgate Churchyard.
Envoy Extraordinary and Minister Plenipotentiary, His Excellency Louis
Mc Lane, Esq., 38, Harley-street, Cavendish-square.
Consul, Colonel Thomas Aspinwall, 1, Bishopsgate Churchyard.
Agent for the Legation, Mr. J. Miller, 26, Henrietta-street, Covent-garden.

AUSTRIA.

Ambassador Extraordinary and Plenipotentiary, his Excellency Count Maurice
Dietrichstein, Chandos-house.

Consul General, Lionel N. de Rothschild, New-court, St. Swithin's-lane.

BRAZILS. Minister, Commandeur Jose Marques Lisboa. Vice Consul in London, Antonio da Costa, 148, Fenchurch-street,

BAVARIA.

Consulate Office, 11, Bury-court, St. Mary Axe. Envoy Extraordinary and Minister Plenipotentiary, Baron de Cetto, 3, Hill-street, Berkeley-square.

Consul General, Adolphus Frederick Schaezler, Esq.

BADEN.

Consulate, 1, Riches-court, Lime-street. Consul, John Simson.

BELGIUM.

Consulate Office, 3, Copthall-court, Throgmorton-street.
Envoy Extraordinary and Minister Plenipotentiary, M. Sylvain Van de Weyer,
K.C.H., 50, Portland-place.
Consul, H. Castellain.

BUENOS AYRES.
Consular Office, 1, Winchester-buildings, Old Broad-street.
Minister Plenipotentiary, Don Manuel Moreno, 23, Upper Wimpole-street, Cav. udish-square.
Consul General, G. F. Dickson, 20, Hanover-terrace, Regent's Park.

DENMARK.
Minister, his Excellency Count Reventlow, 52, Wilton-crescent.
Consul General, Fletcher Wilson, 6, Warnford-court, Throgmorton-street.

FRANCE.

Consulate Office, 3, Copthall-buildings, Throgmorton-street, Ambassador Extraordinary and Minister Plenipotentiary, His Excellency Count St. Aulaire. Consul General, Durant St. André, 44, Montague-square.

FRANKFORT-ON-THE-MAINE. Consulate Office, 12, Broad-street-buildings. Consul, John George Behrends.

Consulate Office, 25, Finsbury-circus. Consul-General, Pandia Ralli, 25, Finsbury-circus.

Consulate Office, 6, Circus, Minories.
Minister, Count Kielmannsegge, 44, Grosvenor-place.
Consul General, Sir J. Hall, K.C.H., St. Katherine's Dock-house.

MEXICO.
Consulate Office, 1, Great Winchester-street, City.
Minister and Envoy Extraordinary, Don Tomas Murphy, 7, Sussex-place,
Regent's-park,

NETHERLANDS. Every Extraordinary and Minister Plenipotentiary, M. Dedel, 25, Wilton-crescent. Consul General, J. W. May, 123, Fenchurch-street.

NEW GRENADA. Chargé d'Affaires, M. M. Mosquera, 52, Baker-street, Portman-square. Consul, Im. Suenz, Esq., 3 Winchester-buildings, Great Winchester-street, Old Broad-street.

OLDENBURGH.

Consulate Office, 48, Fenchurch-street. Consul General, H. F. Tiarks.

PORTUGAL.

Consular Office, 5, Jeffrey's-square. Envoy Extraordinary, Baron da Torre de Moncorvo, 57, Upper Seymour-street. Consul General, F. I. van Zeller, 40, Dorset-square.

PRUSSIA.

Consulate Office, 106, Fenchurch-street. Envoy Extraordinary and Minister Plenipotentiary, Chevalier Bunsen. Consul General for Great Britain and Ireland, Chevalier B. Hebeler, K.R.E., 15, York-place, Baker-street.

THE ILLUSTRATED LONE	OON ALMANACK FOR 18-	16.
liUSSIA. Consulate Office, 2, Winchester-buildings, Old Broad-street. Ambassador Extraordinary and Propotentiary, Baron de Brunow, Ashburnhamhouse, Dover-street, Piccadilly. Consul General, George Krehmer, Esq.	Strasbourg, from Paris 285 Trieste, from Venice 319 Utrecht 220 Vienna, from Frankfort O. M. 437	Vienna, fram Trieste Miles Venice, from Milan 200 Wiesbaden 520 Zurich 830
SARDINIA. Consulate Office, 31, Old Jewry. Minister, II. E. the Count de Pollon, 11, Lower Grosvenor-street. Consul General, J. B. Heath, 66, Russell-square.	BANK OF	→
SAXONY. Consulate Office, 76, Cornhill. Resident Minister, Baron de Gersdorff, Chester-square, Pimlico. Consul General, James Colquhoun, 12, St. James's-place. HANSEATIC REPUBLICS OF LUBECK, BREMEN, AND HAMBURGH. Diplomatic Agent and Consul General, Jumes Colquhoun, Esq., 12, St. James's-	The alteration in the Bank D GOVER! John Benjanio Heath, Ese William E. Robinson, Esq. DIRECT Chapman, Edward Henry, Esq.	NORS. q., Governor. ,, Deputy-Governor. FORS. Malcolmson, James, Esq.
place; Consulate Office, 76, Combill. SICHY. Consulate Office, 15, Cambridge-street, Hyde Park-square. Ambassador Extraordinary, Prince de Castelcicala, 15, Princes-street, Cavendial-square.	Cotton, William, Esq. Grenfell, Charles Fascoe, Esq. Gower, Abel Lewes, Esq. Hanson, John Oliver, Esq. Hodgson, Kirkman Daniell, Esq. Holband, Henry Lancelot, Esq.	Morris, James, E≀q. Normun, George Warde, Esq. Pattison, James, Esq. Pearse, Christopher, Esq. Pelly, Sir John Henry, Bart. Powell, David, Esq.
Consul General, Henry Swenburn Minasi. SPAIN. Envoy Extraordinary and Minister Plenipotentiary, the Duke of Sotomayer, 9. Cavendish-square. Consultate, 37, Old Broad-street. Consultateneral, Chevalier Don Jose Maria Barriero.	Hutbard, John Gelibrand, Esq. Hutt, Thomas Newman, Esq. Huth, Clarles Frederick, Esq. Lethan, Alfred, Esq.	Reid, Sir John Rae, Bart. Sm'ith, Thomas Charles, Esq. Thompson, William, Esq. & Alderman. Weguelin, Thomas Matthias, Esq. Wilson, Francis, Esq
SWEDEN AND NORWAY. Consulate Office, 2, Crosby-square. Chargé d' Affaires, Baron de Rehauson, 11, Halkin-street, West. Consul General, Charles Tottie, Esq., 52, Montagno-square. SWITZLILAND. Consul Office, a 24, Gresham-street,	Secretary, John Knight; Dep. Sec., Jol Chief Accountant, William Since; Depa Noble; Chief Cashier, Matthew Marsha Assistant, Thomas Bros. THE BANK OF ENGLAND MAS BR. FOLLOWIN	aty, George Earle Gray; Assistant, J. P. all; First Assistant, J. R. Elsey; Second ANCH ESTABLISHMENTS IN THE
Agent and Consul General, J. L. Prevost. Vice Consul, G. Prevost. TURKEY.	Birmingham—Bristol—Glouce-ter-III Newcastle-upon-Tyne—Norwich—Plymor	ull-Leeds-Liverpool-Manchester-
Ambasador Extraordinary, His Excellency Ali Effendi. Consulate Office, 1, Bryanstone-square. Consul General, Edward Zohrab, Esq., 1, Bryanstone-square.	LONDON 1 Bank of England, Threadneedle-street Bank of Australia, 2, Moorgate-street	
Consulute Office, 15, Angel-court, Throgmorton-street. Consul, James Christian Clement Bell.	Bank of British North America, 7, St. Helen's-place, Bishopsgate Within Bank of Ceylon, 72, Old Broad-street	London and Dublin Bank, 19, and 20, Austin Friars London Joint Stock Bank, Princes-
WURTEMBURG. Consul General, Bernard Hebeler, 15, York-place, Baker-street. Consulate Office, 106, Fenchurch-street.	Barclay, Bevan, and Tritton, 54, Lombard-street Barnard, Dimsdale, Barnard and Co., 59, Cornhill	street, Bank, and 69, Pall-Mall London and Westminster, Lothbury 9, Waterloo-place, 213, High Hollorn
EAST INDIA COMPANY. Six Directors are elected annually in April, when six go out by rotation. Each	Barnett, Hoare, and Co., 62, Lombard- street Bosanquet, Anderton, Franks, and Co.,	3, Wellington-street, Borough 87, High-street, Whitechapel Stratford-place, Oxford-street
Dire for serves four years. The figure prefixed denotes the number of years each has to serve. DIRECTORS.	73, Lomburd-street Bouverie, Norman, and Murdoch, 11, Haymarket	London and County Joint Stock Bank- ing Company, 71, Lombard-street, and 37, West Smithfield
(2) Chairman, John Shepherd, Esq., Mansfield-street (3) Deputy Chairman, Sir Henry Willock, K.L.S., Little Campden House, Kensington	British Colonial Bank and Loan Com- pany, 50, Moorgate-street Brown, Janson, and Co., 32, Abchurch-	Lubbock, Sir J. W., and Co, 11, Man- sion-house-street Biartin, Stones, and Marlin, 68, 1.om-
(1) Alexander, Henry, Esq. (1) Astell, William, Esq. M.P. (2) Bayley, W. Butterworth, Esq. (2) Bryant, Major-Gen. Sir Jeremiah (2) Oliphant, Major James	lane Buet, James, Son, and Co., 85 and 86, Cheapside Call, Sir W. P., Marten, and Co., 25,	bard-street Mascerman, Peters, and Co., 35, Nicholas-lane National Provincial Bank of England,
(3) Robertson, Major-Gen. Archd. (4) Smith, Martin, T. Esq. (4) Galloway, Major-Gen. Archibald (3) Hobertson, Major-Gen. Archd. (4) Smith, Martin, T. Esq. (3) Sykes, LieutCol. W. II. (2) Warden, Francis, Esq. (3) Whiteman, John Claremont, Esq.	Old Bond-street Champion and Co., 11, West Smithfield Child and Co., 1, Fleet street, Temple Bar Cocks, Biddulph, and Co., 43, Charing	112, Bishopgate-street Within Pickstock and Co., 39, Clement's-lane Praed, Fanc, Praed, and Johnson, 189, Fleet-street Prescott, Grote, Ames and Co., 62,
(4) Lushington, Major-Gen, Sir J. Law (4) Wigram, William, Esq. (4) Lyall, George, Esq., M.P. (2) Young, Sir William, Bart. Secretary, James Cosmo Melville, Esq.	Cross Cockburn and Co., 4, Whitehall Colonial Bank, 13, Bishopsgate Within	Threadned dle-street Price, Sir C., Bart., and Co., 3, King William-street
Deputy-Secretary, John D. Dickinson, Esq. DISTANCES,	Commercial Bank of London, 3, Moorgate-street, and 5 and 6, Henrietta-street, Covent-garden	Pocklington and Lacy, 60, West Smith- field Puget, Bainbridge, and Co., 12, St. Paul's
IN EXCLISE MILES, OF THE PRINCIPAL TOWNS FROM LONDON, To which are added, these between some of the Continental Towns,	Coutts and Co., 59, Strand Cunliffes, Brooks, and Co., 29, Lom- bard-street Cunliffe, Roger, 34, Bucklersbury	Ransom and Co., Pall-mall East Robarts, Curtis, and Co., 15, Lombard- street
Miles Mile	Curries and Co., 29, Cornhill Davies, Robt, and Co., 187, Shoreditch De Lisle, Janvrin, and Co., 16, Devon-	Rogers, Olding, and Co., 29, Clement's- lane Royal Bank of Australia, 2, Moorgate-
Arnsterdani	bard-street shire-square, Bishopsgute Denison, J., Heywood and Co., Lombard-street	street, City Scott, Sir C., Bart., and Co., 1, Cavendish-square
Basel </th <td>Dixons, Brooks, and Dixon, 25, Chancery-lane Drewett and Fowler, 4, Princes-street,</td> <td>Smithfield Agency and Banking Com- pany, 59, West Smithfield Smith, Payne, and Co, King William- street</td>	Dixons, Brooks, and Dixon, 25, Chancery-lane Drewett and Fowler, 4, Princes-street,	Smithfield Agency and Banking Com- pany, 59, West Smithfield Smith, Payne, and Co, King William- street
Bieberich 510 Milan 942 Bonn 420 Milan, from Venice 200 Bordemix, from Paris 346 Magdeburg, from Hamburg 157	Bank Drummonds and Co., 49, Charing Cross Fetham, John, and Co., 42, Lombard- street	Stallard, W. H., 76, West Smithfield Stralian, Pauls, and Bates, 217, Strand Spooner, Attwood, and Co., 27, Grace-
Breslau, from Berlin 202 Magdeburg, from Leipzig 74	Fullers and Co., 65, Moorgate-street Glyn, Sir R. Carr, Bart., and Co., 67, Lombard-street Goslings and Sharpe, 19, Fleet-street	church-street Stevenson, Salt, and Sons, 20, Lombard- street Stone, Martin, and Stones, 68, Lombard-
Caub	Hanburys, Taylor, and Lloyd, 60, Lombard-street Hankeys and Co., 7, Fenchurch-street	street Stride and Sons, 6, Copthall-court Tisdale, T. G., 15, West Smithfield
Constance	Herries, Farquhar, and Co., 16, St. James's-street Hill and Sons, 17, West Smithfield	Twinings, Rich., G. J. A., and Nich., 215, Strand Vere, Sapte, Banbury, and Co., 77.

James's-street
Hill and Sons, 17, West Smithfield
James's, 37, Fleet street
Hopkinson, Barton, and Co., 3, Regentstreet, Waterloo-place
Joinan Bank, 6, Great Winchester-street
Ireland, Provincial Bank of, 42, Old
Broad-street
Treland, National Bank of, 13, Old Broadstreet
Joinston and Co., 15, Great Bush-lane
Jones Loyd, and Co., 43, Lottbury
Jones and Son, 41, West Smithfield Dresden, from Prague Offenburg Vere, Sapte, Banbury, and Co., 77. Lombard-street Lombard-street
Weston and Young, Wellington-street,
Borough
Williams, Deacon, and Co., 20, Birchinlane
Wills, Percival, and Co., 76, Lombardstreet
Union Bank of London, 8, Moorgatestreet
Argyll-place, Regent-street, and
Pall-Mall, East Dusseldorf Elberfeld ... Enmerich
Florence
Frankfort O. M.
Frieburg
Gand
Geneva
Gratz, from Viennu
Hague
H. vre, by Brighton 1.60 544 739 177 1080 120 212 56

Hemel Hempstead Hertford

Highworth Hoddesdon

GENERAL POSTAL REGULATIONS.

HEADS OF DEPARTMENTS.

HEADS OF DEPARTMENTS.

Postmaster General, Earl Lonsdale; Secretary, Lieut.-Col. W. L. Maberly; Assistant Secretary, T. Lawrence, Esq.; Chief Clerk to the Secretary, J. Campbell, Esq.; Solicitor, Mark B. Peacock, Esq.; Surveyor and Superintendent of Mail Conveyance and Guards, G. Stow, Esq.; Accountant General, C. T. Court, Esq.; Receiver General, T. Young, Esq. Inspector of Ship Letters, G. Huddlestone, Esq.; Inspector of the DeadLetter Office, K. Newton, Esq.; President of the Money Order Office, W. Barth, Esq.; Superintending-president of the Inland and Foreign Department, W. Bokenham, Esq.; Inspector of the Carriers (general post), F. Kelly, Esq.; Superintending-president of the Condon District Post, R. Smith, Esq.

INLAND REGULATIONS.

All letters from one part of Great Britain to another (including the Loca Penny Posts and the London Twopenny Post) are charged by weight as follows if prepaid :-

and so on at the rate of 2d. for every additional ounce or fraction of an ounce.

Unpaid and unstamped letters, are charged double postage on delivery; letters insufficiently paid or stamped, are charged double the amount of such insufficiency on delivery.

Letters or packets exceeding 16 ounces in weight not forwarded—except,
Parliamentary petitions and addresses to Her Majesty
Parliamentary proceedings
Letters or packets addressed to, or received from, places beyond sea

Letters or packets to and from public departments and public officers.

PRICES OF STAMPS.

AT A POST OFFICE.—Labels, Id. and 2d. each; Covers, 2s. 3d. per two dozen. At a Stamp Diatributor's, as above, or as follows.—Half-ream, or 240 Penny Covers, £1 2s. 4d.—Penny Envelopes, £1 1s. 9d. Quarter-ream, or 120 Two-penny Covers, £1 1s. 4d.—Twopenny Envelopes, £1 1s. 1d.

AT THE STAMP OFFICES in London, Dublin, and Edinburgh, as above, or as follows.—2 Reams, or 960 Penny Covers, £4 7s.—Penny Envelopes, £4 5s. 1 Ream, or 490 Twopenny Covers, £4 3s. 6d.—Twopenny Envelopes, £4 2s. 6d. Covers may be had at these prices, either in sheets or cut ready for use. Envelopes in sheets only, and consequently not made up. No one, unless duly licensed, is authorised to sell postage stamps.

The Penny Stamp earlies half an ounce (inland), the Twopenny Stamp one ounce. For weights exceeding one ounce, use the proper number of labels, either alone, or in combination with the Stamps of the Covers or Envelopes.

HOURS OF POSTING.

HOURS OF POSTING.

FOR THE EVENING MAILS.

The receiving houses close at 5 30 P.M. Letter carriers ring bells and take letters in the streets to go by the evening mails from 4 30 to 5 30 P.M., (with such letter one penny fee is charged as a perquisite to the postman). Letters are received for the evening's dispatch at the Branch Post-offices at Charing-cross, Old Cavendish-street, and 108, Blackman-street, Southwark, until 6 P.M., and, with a fee of one penny, which must be paid by affixing a stamp to the letter, until 6 4 P.M. At the Branch Post-office in Lombard-street, the box remains open without additional fee until 6 P.M., and until 7 P.M., by affixing a penny stamp. At the General Post-office in St. Martin's-le-grand until 6, free, and 7 by payment of the extra charge as at Lombard-street. From 7 to half-past 7 P.M., letters may be posted there upon payment of a fee of sixpence each, which must, as well as the postage, be prepaid. Letters intended to pass by outward mails to foreign parts must be posted at the above hours. In the case of Colonial and ship letters, howerer, there is this difference:—The "late" fee of one penny must be paid in money. Foreign letters are taken in at the Branch offices as follows:—Tuesdays and Fridays at Charim-cross, Old Cavendish-street, and 108, Blackman-street, Southwark, until 1 P.M.; at the office in Lombard-street, and the General Post-office in St. Martin's-le-grand, only from 10 15 P.M., on payment of a fee of one penny, and from 10 15 P.M., till 10 30, on payment of a fee of sixpence.

N.B. Newspapers for the evening mails must be put into the receiving houses

N.B. Newspapers for the evening mails must be put into the receiving houses N.B. Newspapers for the evening mains miss, be put into the receiving houses before 5 P.M., the Branch offices before 5 30, or General Post-office before 6 P.M. They may also be posted by letter carriers ringing bells from 4 30 P.M. to 5 30 P.M. with the penny fee to the postman. From 6 P.M. to 7 30, they may be put into the office on the left hand side of the portice, and at the nearest window to it on the western front on payment of one halfpenny late fee. Subjoined is a list—the latest officially published—of the post towns to which bags are made up per morning mails.

Cuckfield

morning mails.

Abingdon Accrington Alnwick Andover Road Appleby Ashford Attleborough Banbury Bangor Bath Barnsley Basingstoke Battle Beaumaris Belford Belper Berkhampstead Berwick Bilston Birmingham Bishops Stortford B'ackburn Bolton Brackley Bradford, Yorks Brandon Brentwood Bridgewa er

Brighton Darlington Bristol Dartford Brough Daventry Buckingham Derhy Burnley Bury St. Edmund's Dorking Dover Duninow Cambridge Canterbury Dursley Carlisle Durham Carnarvon Ely Exeter Chatham Chelinsford Fairford Farcham Cheltenhain Chepstow Farringdon Felton Chester Chester-le-Street Fenny Stratford Feversham Chesterfield Chiapenham Folkstone Gateshead Chorley Circnester Gloucester Godalming Clitheroe Cockermouth Gosport Grantham Colchester Conway Gravesend Guernsey Coventry Guildford Halifax Cowes Cranbrook

Hastings

7;	Hoddesdon	Penkridge
p-	Holyhead	Penrith
of	Holywell	Portsmouth
t,	Huddersfield	Preston
1-	Hurst Green	Preston Brook
nt	Hythe	Pwllheli
ie	Ipswich	Ramsgate
ı-ı	Jersey	Reading
n	Kelvedon	Reigate
	Kendal	Rickmansworth
	Kenilworth	Ripon
	Lancaster	Rochdale
	Leamington	Rochester
ıl	Lechlade	Rotherham
s,	Lecds	Rugby
	Leicester	Ryde
	Leighton Buzzard	Rye
	Lewes	Saffron Walden
	Liverpool	Seven Oaks
	Loughboro'	Sheffield
	Maidenhead	Shiffnall
	Maidstone	Sittingbourne
s	Manchester	Shorcham
i-	Margate	Shrewsbury
	Maryport	Slough
	Melton Mowbray	South Shields
	Milnthorpe	Southampton
	Mold	Staplehurst
	Monmonth	St. Alban's
	Morpeth	St. Asaph
	Newcastle, Staff.	St. Leonard's
	Newcastle-on-Tyne	Stafford
١.	Newmarket	Stockport
У	Newport, I. of W.	Stone
-	Newport Pagnel	Stony Stratford
	Northampton	Stratford-on-Avon
s	North Shields	Stroud
1	Norwich	Sunderland
.	F11 4111	4h- 1-44 1 1
-	For all the above places,	
, 1	till seven, A.M. for the ne	wspapers, and eight, A.

Nottingham Swindon Northallerton Tauntou Oxford Tenterden Thetford Thirsk Towcester Tring Tunbridge Tunbridge Wells Ulverstone Uxbridge Wakefield Wallingford Walsall Ware Warrington Warwick Watford Wednesbury Wecdon Wellington, Salop Wellington, Som. West Bromwich Whitehaven Wigan Wigton Wincbester Windsor Witham Wolverhampton Workington Worthing Wotten-under-Edge Wymondham Yarmouth All Ireland All Scotland

e Receiving Houses will be open till seven, A.M. for the newspapers, and eight, A.M. for letters; and those at the Braneb Offices, Charing-cross, Old Cavendish-street, and the Borough, for newspapers until half-past seven, A.M., and for letters until eight, A.M. At the General Post Office and the Branch Office in Lombard-street, the boxes will close for newspapers at a quarter before eight, A.M., and for letters at half-past

LETTER-RATES TO PLACES BEYOND THE LIMITS OF THE UNITED KINGDOM.

WEST INDIA AND AMERICA RATES.

PACKET RATES, paying the Postage optional, excepting those places marked *, which must be paid with. Under half oz.

North America, viz.:—Quehec, Montreal, and all parts of *Canada; Nova Scotia (Halifax excepted). Prince Edward's Island, and New Brunswick, conveyed direct by the contract packets (being one shilling packet postage, and twopence uniform interval colonial rate).

Halifax, Newfoundland, *New York, the Bermudas, and the *United States.

British West Indies, &c., including Kingston (Jamaica), Barbadoes, New Providence, Turk's Island, Bahamas, Antigua, Cariacon, Demerara, Dominica, Grenada, St. Lucia, Monserrat, Nevis, St. Vincent's, St. Kitt's, Tobago, Tortola, and Trinidad

Foreign West Indies, including *Guadaloupe, *Martinique, *St. Thomas, *Curacoa, *Surinam. *St. Martin's, *St. Croix, and Porto Rico
Jamaica (all the island, except the packet-port, Kingston) and Berbice 2 1 0 5

parts of the United Kingdom.

All Letters addressed to North America will be considered as intended to be

.. Single. .. Double. .. Quadruple.
.. Sextuple and so on.

PERSONS EXEMPT FROM SHIP LETTER POSTAGE.

PERSONS EXEMPT FROM SHIP LETTER POSTAGE.

The Owners, Charterers, or Consignes (resident in the United Kingdom), and the Owners, Consignees, and Shippers of Goods on board vessels inward bound, are entitled to receive their letters free from sea postage, to the extent collectively of six ounces in weight, by any one vessel to any one such person. In the case of vessels corning from Ccylon, the Mauritius, the East Indies, or the Cape of Good Hope, for an Owner, Charterer, or Consignee of such vessel, the Letters may be collectively twenty ounces in weight. The Owner, Charterer, or Consignee, must be described as such on the address and superscription; and in the ease of Owners, Shippers, or Consignees of goods, it must also appear by the Ship's Manifest that they have goods on board the vessel. Such persons are entitled to have their letters, which come within the above conditions, before the master of the vessel delivers the other letters in his charge to the post-office. the post-office. Every person who shall, with intent to evade any duty of postage,

falsely superscribe a letter as being the Owner, or the Charterer, or the Consignee of a vessel conveying the same, or as the owner, or the Shipper, or the Consignee of goods shipped in such vessel, shall for every such offence forfeit

MONEY

Coin, if enclosed in letters at all, should be folded in paper, sealed, and then fastened to the inside of the letter; but to avoid risk, a money order should be used whenever practicable. A letter may be registered on the payment of 1s. only. FOREIGN LETTERS.

The packet rates are too various to be enumerated here. As regards both foreign and colonial letters, there is no limitation as to weight. All sent outwards, with few exceptions, must be prepaid by money or by stamps; and those going by private ship must be marked "ship letter."

It is requested that all letters may be fully and legibly addressed, and posted as early as convenient. Also, that whatever kind of stamp may be used, it may invariably stand above the address, and towards the right hand side of the letter, There are "made up" in London the following Mails, as specified by the notices to the public, issued by the Post-Master-General:

France, daily, due daily, under ½ oz., postage 10d.

Belgium, daily, due daily, under ½ oz., postage 1s.

Holland, Tuesday and Friday, due Monday and Thursday, under ½ oz., postage ls.

Hamburg, Sweden, and Norway, Tucsday and Friday, due Tuesday and Satur namourg, Sweden, and Norway, Tucsday and Friday, due Tucsday and Saturday, but usually arrive on previous day, under ½ oz., postage 6d., Sweden and Norway, postage 1s. 8d. under ½ oz.

Inland rates:—Dublin, twice a-day, due twice a-day.

Ditto, Waterford, daily, due daily,
Ditto, Donaghadee, daily, due daily.

Ditto, Guernsey and Jersey, Tucsday, Thursday, and Saturday, due Tucsday,

Thursday, and Saturday.

Lisbon, Madeira, Vigo, Cadiz, Corunna, Oporto, and Gibraltar, 7th, 17th, and

27th, of every month.

Malta, Greece, and Ionian Islands, viā Southampton, twice in each month, viz.:

on the 3rd and 20th of every month.

Syria, Egypt, and India, via Southampton, 3rd and 20th in each month.

Syria, Egypt, and India, via Southampton, 3rd and 20th in each month.

Brazil, Buenos Ayres, Madeira, and Canary Islands, 1st Tuesday in each month.

British North America, Bermuda, and United States, 3rd and 18th of every month, except in the winter months, December, Jenuary, February, and March, and then on the 3rd only.

Jamaica, Leeward Islands, Hayti, Porto Rico, and Cuba, mornings of the 2nd and 17th of every month.

Mexico, Panama, New Granada, and Venezuela, mornings of the 2nd of every

month.

The Mails despatched for Vigo, Oporto, Lisbon, Cadiz and Gibraltar are forwarded by steam vessels from Southampton to Gibraltar.

The Mails of the 3rd and 20th in each month are forwarded by the same

packet from Southampton to Alexandria; leaving Mails at Malta.

The Mails for Greece and the Ionian Islands are conveyed from Malta every fortnight, by steam packets, which start after the arrival of the Mails from

England.

The Mails for Egypt and India are forwarded direct from Southampton on the 3rd and 20th of each month, by steam packets.

From August to January inclusive, the packet touches at Pernambuco and Bahia, on her outward passage to Rio Janeiro, and the other six months on her

RATES OF POSTAGE WITHIN BRITISH NORTH AMERICA. Letters forwarded to or from British North America by the Liverpool packets, or by private ships, passing direct between the United Kingdom and British America, are charged with an uniform Colonial rate of twopence the half onnee when posted or delivered at any other towns than the ports of Halifax, Nova

Scotia, or St. John's, Newfoundland.

MONEY ORDERS.

Orders for sums not exceeding £2 are charged threepence; not exceeding £5, sixpence; above £5 no money order can be obtained. They are granted and paid between the hours of ten and four daily: they are paid only to the person for whom they were obtained, but he may depute another person to receive the money by signing the order, and giving his deputy the christian and surname, the address, and occupation of the person who originally obtained the order, so that the deputy may be enabled to give those particulars when he presents the order at the office for payment. Persons residing in London should instruct their correspondents who may obtain money orders, to make them payable at the most convenient of the above offices, as money orders granted, bearing London only, can be paid only at the principal office, St. Martin's-le-Grand.

LONDON DISTRICT POST.

The following table shows the times at which letters are despatched from and to London, and to and from places within the limits of the London district post.

must be posted at receiving-houses in London,

Morning, before 8 for the 10 o'clock dispatch 3 . . ٠. 3 .. 8 8 next morning.

quarter before • • hefore 7 .. 8 next morning.

The deliveries in the country commence immediately upon the arrival of the dispatch from London, except the 8 o'clock night dispatch, which is not delivered till the next morning. The time of arrival of the day-dispatches may be calculated by the distance from London, allowing the post to travel at about the rate of eight miles an hour. Letters for places on the main roads are delivered generally sooner than those for places a distance from them; the deliveries occupy, according to distance from London, from one hour and a half to three

hours after the time of dispatch from London. Receiving-houses where the mail hours after the time of dispatch from London. Receiving-noises where the man cart stops are also called sorting-offices: where there are other receiving-noises in the same place or town, letters are generally dispatched from the latter from a quarter to three quarters of an hour earlier than from the sorting-offices. There are no receiving-houses at those places having no time stated for dispatch to London.

are no receiving-houses at those places having no time stated for dispatch to London. By a recent Treasury warrant the following regulations respecting Foreign Postage were promulgated:—

To all the usual trading-ports of the Cape of Good Hope and Eastward of that Cape, including the Red Sea and Persian Gulf, and between any of the ports enumerated, except between Australia and New Zealand, a uniform rate of 1s, will be charged, on letters not exceeding half-an-ounce in weight [the weight allowed in the succeeding paragraphs].

The rate to the Eastern coast of the Isthmus of Panama is to be 1s.; to the Western coast of Panama or the Western coast of America, 2s.

To Heligoland (except on the letters of soldiers and sailors, which are already lower), 6d.

lower), od.

British and Colonial papers between British Colonies, without passing through
the United Kingdom to be free; except that 1d. may be allowed as a gratuity to
the master of the vessel conveying them.

Newspapers, British, Foreign, or Colonial, passing hetween British or Colonial
and Foreign Ports, and through the British post, to pay 2d.; if not through the
British post 1d.

British post, 1d.

Such papers passing between places in British North American or British West Indian Colonies, to pay a uniform inland rate of \(\frac{1}{2}\)d.

Each supplement to be charged as a separate newspaper, whether inclosed separately or not

separately or not.

separately or not.

Belgian newspapers may be sent from Belgium through the United Kingdom to any Colonies, at a uniform rate of British postage of Id. each.

No newspaper, price-current, or commercial list, shall be conveyed by the post under the regulations of this warrant, unless the same shall he sent without a cover, or in a cover open at the sides, and unless there be no writing or mark upon it except the name and address of the person to whom sent.

The Postage rate to Hanover is altered to a uniform British rate of 6d.; prepayment of the whole postage of British and Foreign rates optional. Newspapers, Id.

papers, 1d.

NEWSPAPERS.

As complaints are continually made that newspapers sent by post are frequently lost, it may not be amiss to state, that the following order on the subject is periodically issued, by the authorities, as a caution to letter-carriers and others: "General Post-office.—The complaints on the subject of missing newspapers, stated to have been committed to the post, continue to he so numerous, that, although the Postmaster-General is satisfied that much of the irregularity complained of arises from causes beyond the control of the Post-office, bits lordship thinks it expedient that every one engaged in the Post-office, who shall steal, or shall wilfully detain or delay in course of conveyance or delivery, any printed votes or proceedings in Parliament, or any printed newspaper, or any other printed paper whatever sent by the post, shall be gnilty of a misdemeanour, and, being convicted thereof, shall suffer such punishment, by fine or impronment, or by both, as to the court shall seem meet." And his lordship further desires it may be distinctly understood, that every individual acting, in any capacity, in the service of the Post-office, who shall be guilty of such an offence, will be prosecuted with the utmost rigour of the law. the utmost rigour of the law.

NEW LINES OF STEAM VESSELS.

NEW LINES OF STEAM VESSELS.

British enterprise has now established steam communication with the following countries:—To Russia, Sweden, and Denmark, by the Hull line; to St. Petersburg; to North Germany, by the Hull and London lines to Hamburgh; to Holland, Belgium, and France, by the General Steam Company's vessels; to the north and south of Spain and to Portugal, by the Peninsular Company's vessels; to faily, by the new line from London to Leghorn; to Malta, the Levant, and Constantinople, by the new line from Liverpool; to Egypt, Arabia, Ceylon, India, Sincapore, and China, by the Oriental Steam Company's vessels; to British America and the United States, by the Cunard and Great Western lines from Liverpool; to the West India line; to Peru and Chili by the West Coast line; to Brazil and the River Plate, by the line building in Liverpool. The only British ectonics of any importance which have not now the advantage of steam communication with the mother country, are the Cape, the Mauritius, and Australian colonics.

PASSPORT OFFICES.

PASSPORT OFFICES.

AMERICA (United States and Central America).—No passport required.

AUSTRIA.—Embassy, 7, Chandos-street, Cavendish-square, between 12 and 2.

BAVARIA.—The Minister, 3, Hill-street, Berkeley-square, when personally known to him; or the Consul, 11, Bury-court, St. Mary Axe.

Beloum.—Legation, 9 A, Weymouth-street, Portland-place, between 11 and 3; delivered next day between 11 and 2, gratis; or the Consul's office, 3, Copthall-court, between 10 and 4 – fee 5.

BRAZIL.—Legation, 10, York-place, Portman-square, hetween 12 and 2, gratis. BRAZIL.—Consul's office, 6, Warnford-court, between 10 and 4—fee 10s 6d.

FRANCE.—French passport-office, 6, Poland-street, Oxford-street, from 11 to 5; delivered next day between 1 and 3, on personal application, gratis; also at the Consul's office, 25, Finsbury-circus, between 11 and 4—fee 2s. 6d.

HANOVER.—Secretary to Embassy, 4, Hobart-place, Eaton-square, between 10 and 3; and at the Consul's office, 6, Circus, Minories, between 10 and 3; gratis.

MEXICO.—Legation, 7, Sussex-place, Regent's-park, between 10 and 4; delivered Mexico.—Legation, 7, Sussex-place, Regent's-park, between 12 and 4; delivered following day.

following day.

NAPLES AND SIGLY.—Passport-office, 2, Old Cavendish-streef, Mondays and Thursdays, between 10 and 12; delivered following day between 2 and 3, gratis; for persons going by sea, Consul's office, 15, Cambridge-street, IIyde Park-square, between 10 and 12—fee 10s.

PORTUGAL.—Embassy, 57, Upper Seymour-street, Bryanstone-square, between 11 and 4, delivered following day; also at Consul's office, 15, St. Mary Axe.

PRUSSIA.—Consul's office, 106, Fenchurch-street, between 10 and 6—fee 7s.

RUSSIA.—Consul's office, 2, Winchester-buildings, between 10 and 4; delivered following day—fee 6s. 4d.

SPAIN.—Visas to Foreign Office. Passports to British subjects, at the Legation, between 11 and 3 gratis; passports to natives at the same time and place.

SPAIN.—Visas to Foreign Office. Passports to British subjects, at the Legation, between 11 and 3 gratis; passports to natives at the same time and place. Sweden ann Norway.—Embassy, 66, Mount-street, Berkeley-square, between 9 and 1; delivered following day—fee 5s. Turkey.—Embassy, 1, Bryanstone-square, between 12 and 3 every day, except Friday and Sunday, gratis.
Tuscany.—Consul's Office, 15, Angel-court, Throgmorton-street, between 10 and 4, gratis.

THE ILLUSTRATED LONDON ALMANACK FOR 1846. OLD BAILEY SESSIONS, 1846. NAME OF RAILWAY PRINCIPAL OFFICE. NAME OF SECRETARY. June 15 Monday July 6. August 17 September 21 Glasgow, Paisley, Kilmar-7 Glasgow J. Fairfull Smith, Esq. .. nock, and Ayr Grand Junction *Gravesend and Rochester? Henry Booth, Esq. Liverpool 15, New Broad-street, } Frederick Collier, Esq. May 11 November 26 City Railway and Canal Great North of England Darlington Major H. Parker RATE OF ALLOWANCE TO WITNESSES ON TRIALS, Great Southern and Wes-tern (freland) Dublin Wm. Taylor, Esq. FOR ATTENDANCE AND EXPENSES, PER DAY. Paddington Station C. A. Saunders, Esq. Great Western .. 0 7 Hartlepool Dock and Rail-7 Hartlepool George King, Esq. * Huddersfield and Shef-7 For Travelling 1s. per mile | The Attorney in the Cause .. 1s. 3d. Huddersfield T. K. Rowbotham, Esq. field Junction Huddersfield and Man-EXHIBITIONS AND OTHER PUBLIC PLACES Huddersfield OPEN GRATUITOUSLY. Edward Ledyard, Esq. chester Railway and THE TOWER OF LONDON. Canal Hull The British Museum.—Monday, Wednesday, and Friday, and the whole of Easter and Whitsun weeks except Saturday, from 10 to 4; from May to September, 10 to 7; closed the first week in January, May, and September, and on Christmas Day, Good Friday, and Ash Wednesday. Children under eight years George Locking, Esq. Hull and Selby *Ipswich and Bury St. Ed-7 Ipswich Jas. F. Saunders, Esq. • • mund's Kendal Thos. Hudson, Esq. * Kendal and Windermere of age not admitted. Lancaster and Preston Lancaster S. E. Bolden, Esq. UNITED SERVICE MUSEUM, Middle Scotland Yard .- Daily, with orders from Lancaster S. E. Bolden, Esq. Lancaster and Carlisle Sta-} North Midland tion, Leeds MATIONAL GALLERY.—Monday, Tuesday, Wednesday, and Thursday, and the whole of Easter and Whitsun weeks except Saturday, from 10 till 5; closed for six weeks from the end of the second week in September, and on Christmas Day W. E. Greenland, Esq. Leeds and Bradford Jas. Fenton, Esq. * Leeds and Thirsk and Good Friday. St. Paul's.—Each week-day from 9 to 11, and from 3 to 4; and on Sunday Leeds Leeds, Dewsbury, and] W. Eagle Bott, Esq. Manchester Leicester and Swannington G. W. Gill, Esq. John Speir Heron, Esq. Leicester Liverpool 9,Old Jewry Chambers during the time of divine service. East India House Museum.—Saturday, from 11 to 3; all the year, except in EAST INDIA HOUSE MUSEUM.—Saturday, from 11 to 5; at the year, exceptions. September. Soame Museum.—Thursday and Friday during April, May, and June, from 10 to 4. Tickets must be applied for previously, and will be sent by post Society of Arrs.—Any day except Wednesday, to strangers and inechanics. Hampton Court Palace.—Every day from 10 till 4. Friday excepted. Kew Gardens.—Pleasure Grounds, Sunday and Thursday, from 12 till sunset, from Midsummer to Michaelmas; the Botanical Gardens and Arboretnm every day, to strangers, from 1 to 3, at any season. Temple Gardens.—Every evening from June 18 to August 31, from 6 in the evening till dusk; and from 8 in the morning till dusk throughout the year on order from a bencher. * Liverpool and Bury Llanelly R. Glascodine, Esq. London and Birmingham Euston Station London Bridge Richard Creed, Esq. R. S. Young, Esq. Alfred Morgan, Esq. London and Croydon London and South Western London and Brighton Nine Elms, London London-bridge T. J. Buckstone, Esq. Coleman-street, 10, Cole London London and Greenwich H. Adron, Esq. London and Blackwall London-bridge J. F. Kennell, Esq. Moorgate-street * Londonderry and Coleraine F. H. Hemming, Esq. Chambers, London * Londonderry and Ennis- ? Ditto DULWICH GALLERY.—Each week-day, except Friday, from 10 to 5 in summer, and from 11 to 3 in winter. Tickets to be had gratis of most of the respectable Ditto killen killen * Lynn and Dereham * Lynn and Ely Manchester, Bolton, and Bury Canal Navigation and Railway Manchester and Birmingham W. W. Williams, Esq. Ditto Lynn, Norfolk printsellers in London. Ditto College of Surgeons' Museum .- Monday, Wednesday, and Friday, with orders from members. Salford John Latham, Esq. P. L. Campbell, Esq. Thos. Mac Nay, Esq. John Fox Bell, Esq. R A I L W A Y S. SECRETARIES AND PRINCIPAL OFFICES OF THE RAILWAYS OF GREAT BRITAIN AND IRELAND. Manchester Manchester and Leeds * Middlesbro' and Redcar Manchester .. Darlington Midland [Those with a * prefixed received Parliamentary sanction last Session.] Derby Monkland and Kirkintilloch Alex. J. Adie, Esq. Glasgow NAME OF BAILWAY. Newcastle-} PRINCIPAL OFFICE. NAME OF SECRETARY. Newcastle-upon-Tyne and 7 Forth, John Adamson, Esq. Carlisle upon-Tyne Newcastle upon Tyne and North Shields L. Lewis, Esq. V. Wm. Swan, Esq. Aberdare 85, Union-street, Ab-erdeen * Aberdare Newcastle-upon-Tyne * Aberdeen Newcastle and Darlington ? John Close, Esq. York John Macdonald, Esq. Guildhall Buildings, Junction Arbroath Arbroath and Forfar James Motfat, Esq. § Henry Hatten and Ae-Richard Till, Esq. Ardrossan Norfolk Ardrossan London Edinburgh C. F. Davidson, Esq. Aylesbury ton Tindal, Esqrs. Alex. J. Adie, Esq. North British Avlcsbury James Chapman, Esq. R. Roy, Esq. Wm. Bourne, Esq. North Union North Wales Mineral Glasgow Preston . . Chester Theed Pearse, Jun., Esq. Bedford Northern and Eastern Shoreditch, London Nottingham, Erewash Valley, Ambergate, and Manchester Birmingham Hugh Harrison, Esq. Joseph Sanders, Esq. Belfast * Belfast and Ballymena Birmingham and Gloucester John Gough, Esq. Nottingham Birmingham Thomas Mae Nay, Esq. * Bishop Auckland and Weardale Darlington Guildhall Buildings, Richard Till, Esq. Pontop and South Shields Fred. Wm. James, Esq. London Preston and Wyre Railway * Blackburn, Darwen, and Blackburn H. B. Jones, Esq. Fleetwood Bolton Peter Sinclair, Esq. Harbour and Dock Blackburn Blackburn and Preston * Richmond 3, Moc. London Moorgate-street, 4, Dean-street, Tooley-street, London 11, King William-street, London Frederick Ottley, Esq. Richard Meade, Esq. * Scottish and Midland * Brighton and Chichester Robert Bow. Kcr. Esq. Boyman Boyman, Esq. Brighton, Lewes, and Hast-Junction Perth * Scottish Central Broad-street, Bristol Princes-street, Edin-Robert D. Ker, Esq. ings Bristol and Exeter J. B. Badham, Esq. Sheffield, Ashton-under-Lyne, and Manchester * Sheffield and Lincoln-John Platford, Esq. D. Rankine, Esq, Manchester * Caledonian burgh Birkenhead J. H. Humfrey, Esq F.R.A.S. Chester and Birkenhead shire Junction Sheffield 62, Moorgate-street, London Shrewsbury, Oswestry, and Chester Junction George King, Esq. Chester and Holyhead Robert Roy, Esq. Chester Cockermouth and Work-7 George Hy. Barnes, Esq. Slamannan Alex. J. Adie, Esq. Cockermouth Glasgow ington * Cork and Bandon Wm. Carr, Esq. South Devon John M'Donnell, Esq. South Eastern (London Cork Capt. W. O'Brien, R.E. *Dublin and Belfast June-tion and Navan Branch Dublin and Drogheda Miles Reck, Esq. London-bridge and Dover) Dublin ٠. 449, West Strand, } * South Wales Dublin N. Armstrong, Esq. London Dublin and Kingstown * Dundalk and Euniskillen Thos. F. Bergin, Esq. Hatfield Nicholson, Esq. Messrs. Shiell and Small * Southampton and Dor-7 Dublin F. A. Griffiths, Esq. Dublin Ringwood, Hants .. chester Stockton and Darlington Dundee and Arbroath Dundee and Newtyle Dundee Samuel Barnard, Esq. Darlington Dundee Richard Baird, Esq. St. Helens Canal and Rail-7 Arthur Sinclair, Esq. Euston Station, London Sunderland St. Helens * Dunstable way Taff Vale Taw Vale Extension and Thomas Long, Esq. Thomas Long, Esq. Michael Coxon, Esq. Archd. Bulkeley, Esq. Jas. F. Saunders, Esq Jas. Smithells. Esq. H. G. Wright, Esq. Durham and Sunderland A. F. Morcom, Esq. G. H. Harris, Esq., (pro Eastern Counties Eastern Union Shoreditch, London 5, Guildhall Cham-bers, London Ipswich Bury temp.) J. G. Smith, Esq. W. S. Saunders, Esq. Thomas Mac Nay, Esq. Dock East Lancashire Ulster Belfast

* Waterford and Limerick * Wear Valley

Wilsontown, Morningside, and Coltness Wishaw and Coltness York and North Midland

Whitehaven Junction

West London

Allen Geo. Field, Esq.

W. W. Williams, Esq. Thos. Hartnoll, Esq.

Arthur Currey, Esq.

James Tasker, Esq.

Waterford

Whitehaven

Glasgow

Darlington
11, Abchurch-lane,
London

St. Rollox, Glasgow

Edinburgh and Glasgow Edinburgh, Leith, and

lasgow, Paisley, and ?

Granton
* Ely and Hnntingdon

* Exeter and Crediton

Furness

Glasgow

Edinburgh

minster

Lynn, Norfolk

Old Palace Yard, West-7

..

John Thompson, Esq.

C. A. King, Esq. Wm. Gray, Junr., Esq.

Jas. Knipe, Esq,

Jas. Mitchell, Esq.

TABLE FOR COMPUTING BROKERS' COMMISSION.	HACKNEY COACH AND CAB FARES.
No. of At 6d per Share. Share. At 1s. 3d. At 1s. 6d. At 2s per At 2s. 6d. At 5s, per Share. Share. Per Share. Share. per Share. Share. per Share. Share. per Share.	Birmingh, Euston aq Tooley-st. Shoreditch Paddingt. Southamp.
£. s. d. £.	Cb Coa. Cab Coa Cab Coa. Cab Coa. Cab Coa.
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NEW ACTS OF PARLIAMENT AND PARLIAMENTARY RETURNS.

ABSTRACT OF THE WILLS ACT.

1 Victoria, c. 26,

Operation of the Act .- The Act does not extend to Scotland; neither does it affect the wills of soldiers or sailors on actual service, nor wills made before the commencement of 1838. But all wills, with the exception of those of soldiers or sailors, made after the commencement of 1838, come under the provisions of the

What kind of Property may be bequeathed by Will.—It is lawful for every person to devise, bequeath, or dispose of, by his will executed in the manner directed by the act, all real estate, and all personal estate which he shall be entitled to either at law or in equity, at the time of his death.

at law or in equity, at the thine of his death.

All property may thus be hequeathed by will. "Real Estate" extends to manors, advowsors, messanges, lands, tithes, rears, and hereditaments, whether freehold, customery freehold, tenantright, customery or copyhold, or of any other tenure, and whether corporeal, incorporeal, or personal, and to all future and contingent interests therein. Personal estate extends to leasehold estates, and other chattels real, and also to moneys, abares of government and other funds, securities for money (not being real estate) debts, rights, credits, goods, &c.

How a Will should be made.—A will can only be made in warring: and it must be signed at the foot and end by the testator himself; or, if he is mabbe to do it, by some person for him, in his presence, and by his direction; and his testator must either make or acknowledge his signature in the presence of two or more persons, who are to be present at the same time, and who are to sign their names as attesting witnesses in the presence of the testator. No particular form of as attesting witnesses in the presence of the testator. No particular form of attestation is necessary.

attestation is necessary.

The above mode must be observed by all persons, male, or female, in making their wills. It any person is drawing up his will, or having it drawn up for bim, without legal assistance, the hest mode of expression will be the simplest and plainest that can be used. Care must be taken not to bequeath legacies to attesting witnesses, or even to the wife or husband of an attesting witness, as all legacies so bequeathed are void in law. The object of this enactment seems to be to prevent any will from being disputed or nullified on account of any alleged undue interest on the part of an attesting witness. If, therefore, a testator wishes to give anything to an attesting witness, he must do it some other way than by a legacy. But creditors and executors can be attesting witnesses.

Who cannot make a Valid Will .- Persons under twenty-one years of age cannot make a valid will. Neither can married women in the lifetime of their husbands, except where they have property settled on them with a power of devising, &c. What of itself Revokes a Will.—Any man or woman, having made a will, and marrying afterwards, the act of marriage revokes the will, "unless made

in exercise of a power of appointment, when the estate thereby appointed would not in default pass to his or her heir, customary heir, executor, or administrator, or the person entitled as bis or her next of kin, under the statute of distributions."

How a Will may be Revoked or Altered.—A will can only be revoked by being destroyed, or by the execution of a new will. Alterations must be made in the same way as a will.

Persons making any alterations in their wills must therefore he careful that the alterations re witnessed and signed in the same way as the wills

are witnessed and signed in the same way as the wills

How a Will is to be hereafter Construed.—Wills are to be constructed as if
made immediately before the death of the testator, unless a contrary intention
appears from the terms of a will itself.

A residuary devise shall include the estates bequeathed by lapsed and void devises, unless a contrary intention shall appear.

A general devise of the testator's land shall include copyhold and leasehold,
as well as freehold lands, unless a contrary intention shall appear.

A general gift shall include estates over which the testator has a general power
of appointment unless a contrary intention shall appear.

of appointment, unless a contrary intention shall appear.

A devise without any words of limitation shall be construed to pass the fee, un-

A devise without any words of limitation shall be construed to pass the fee, unless a contrary intention shall appear.

The words "die without issue," or "die without leaving issue," shall be construed to mean die without issue living at the death of the person, and not an indefinite failure of his issue, unless a contrary intention shall appear by the will, by reason of such person having a prior estate tail, or of a preceding gift, being, without any implication arising from such words, a limitation of an estate tail to such person or issue, or otherwise; but this Act shall not extend to cases where such words import if no issue described in a preceding gift shall be born, or if there shall be no issue who shall live to attain the age or otherwise answer the description required for obtaining a vested estate by a preceding gift to such issue.

The preceding abstract gives the main points of this important Act, which tends to simplify the law of wills, and prevent the litigation so often arising from the disposal of property by the law obcquest.

NEW ACT FOR THE GRANTING OF LEASES.

NEW ACT FOR THE GRANTING OF LEASES.

"An act to facilitate the Granting of certain Leases," 8 and 9 Victoria, c. 124, contains eight short provisions, with two schedules. The object of this new law seems to be to shorten leases for lands and tenements. A very short form, indeed, may be used, and it is provided, that in future leases, unless specially excepted, shall be deemed to include all outhouses, buildings, &c., belonging or otherwise appertaining. The remuneration for preparing and executing so short a deed is not to be paid by the length (shortness), but the taxing-master is to consider the skill and labour employed, and responsibility incurred in the preparation thereof. Any deed which shall fail to take effect under this act shall bind the parties as if the act had not been made. The act is not to extend to Scotland. The forms to be used are very concise, and a lease prepared and executed according thereto may be carried about without the slightest inconvenience.

GAMES AND WAGERS.

GAMES AND WAGERS.

THE Act 8 and 9 Victoria, c. 109, "to amend the Laws concerning Games and Wagers," contains several provisions respecting Gaming-houses. In order to remove the difficulties which have arisen on prosecutions, to prove that the house alleged was a common gaming-house, it is now provided, that in the absence of other evidence it shall be sufficient to show that the place is kept open or used for playing therein at any unlawful game, and that a bank is kept there by one or more of the players exclusively of the others, or that the chances of any game played therein are not alike favourable to all the players, including among the players the banker, or other person by whom the game is managed, or against whom the other players stake, play, or bet, and every such house or place shall be deemed a common gaming-house. In places out of the jurisdiction of the metropolitan police, magistrates may issue warrants to officers to enter houses. Persons keeping gaming-houses, and every person having the care or management of the same, as also bankers, croupiers, &c., may now be summarily connent of the same, as also bankers, crouplers, &c., may now be summarily convicted, and fined £100 or sent to prison for six months, and on non-payment of penalties, a warrant of distress levied on their goods. It shall not be necessary in future to prove that the persons found playing were playing for any money, wager

or stake. The Commissioners of Police may authorise a superintendent and constable to enter gaming-houses, and to seize all instruments of gaming, and to take into custody all persons found therein. Search may be made for instruments of In proceedings to be instituted after the passing of this act, it shall be sufraning. In proceedings to be instituted after the passing or this act, it shall be sufficient evidence to show that there were cards, dice, balls, counters, tables, or other instrumen's in the room entered, or on the person selzed, although no play was actually going on at the time, and all such things shall be destroyed. Witnesses examined on gambling transactions are to receive from the magistrates before whom they are called certificates of indemnification. There are also several provisions respecting the regulations to be enforced as to the keeping of billiard and beautiful before the contractions of the contractio sions respecting the regulations to be enforced as to the keeping of billiard and bagatelle tables. Persons keeping inns, ale-houses, and victualling houses are to keep billiard and bagatelle boards, or instruments used in any game of the like kind. The licenses are to be annual, for which a sum of 6s. on each is to be charged. With regard to places other than those mentioned, and which abound in the metropolis, licenses in Middlesex and Surrey are to be taken out after the 5th of April last, and elsewhere after the 10th of October next, and during the continuance of such licenses the words "Licensed for billiards" shall be conspicuously exhibited. Persons keeping such places without licenses, are to be considered as keepers of common gaming houses, and proceeded against accordingly; and on conviction, in a summary manner, to pay or be committed to prison. Billiards are not to be played "after one o'clock, and before eight of the clock in the morning of any day," nor on Sundays, or other days appointed to be kept as a public fast or thanksgiving. All constables and officers are empowered to enter places where billiards or bagatelle are played as often as they think proper, and on refusal to be admitted the keepers to be deemed guilty of an offence against their licenses. It is also provided by this Act, that every person who shall by any fraud or unlawful device or ill practice in playing at or with who shall by any fraud or unlawful device or ill practice in playing at or with cards, dice, tables, or other games, or in bearing a part in the stakes, wagers, or adventures, or in betting on the sides or hands of them that do play, or in wagering on the event of any game, or sport, pastime or exercise, win from any other person to himself or any other or others, any some of money or valuable thing, shall be deemed guilty of obtaining such money or valuable thing from such other person by a false pretence, with intent to cheat or defraud such person of the same; and, being convicted thereof, shall be punished accordingly. Wagers are not to be recoverable by law, but the enactment is not to apply to any sub-scription, or contribution, or agreement to be awarded to the winner or winners of any lawful game, sport, pastime, or exercise. In future, proceedings under feigned issues are to be abolished, and matters tried under a writ of suntimons. Proceedings under this act are not to be commenced without a mouth's notice, and are to be brought within three months of the alleged offence.

SMALL DEBTS ACT.

SMALL DEBTS ACT.

The act 8 and 9, Victoria, c. 127, for the better Securing the Payment of Small Debts," gives power to the Courts of Bankruptcy, and a number of inferior courts, on the application of a creditor by a brief note in writing, to issue a summons against any debtor, on balance of account or otherwise, for a sum not necessary for either party to employ counsel, attorney, or solicitor. The Judge may examine witnesses and documents, and he may also interrogate the parties, and thereupon pronounce a summary judgment. The act empowers him to decide without the intervention of a jury. Where undefined damages are sought, there may be an indirect advantage in saving the Judge from reflections that partisans are sure to make; but in questions of settled accounts, and of bills—in short, in all questions dependent on mere legal skill—the jury is better dispensed with. The Judge may order payment at once, or by instalments; may order excention on the debror's goods and chattels, tradesmen's tools and other necessaries being excepted; and in the case of a contumacious or fraudulent debtor, imprisonment for a term not exceeding forty days.—Provision is made in the act for extending its benefits to the whole of England. One of the clauses empowers the Queen in Council to enlarge the jurisdiction of all interior courts for the recovery of debts, to demands whether on account or otherwise, or to damage arising out of any express or implied agreement, not exceeding £20. Such an order in Council is not to take immediate effect in the case of any court not having a Judge qualified as above desbribed; but it is enacted that the persons ing a Judge qualified as above described; but it is enacted that the persons entitled to appoint a Judge in such court shall, within three months after the entitied to appoint a Juage in stien court snail, within three months after the issuing of the order nominate a qualified Judge, or that if they fail to do so, the Queen shall appoint one. The same section of the act empowers the Queen in Council to extend the district of any such court; and where any part of the extended district is within the jurisdiction of another court, to contract its district. The act 8 and 9 Victoria, c. 127, therefore enables the Executive Government to give every part of the country the benefit of local courts, with efficient judges sould be a real expeditions forms of process for enforcing payment of all debts. and cheap and expeditious forms of process, for enforcing payment of all debts not exceeding £20. The boon is an important one; as is testified by the eagerness of tradesmen in those Metropolitan districts which are not within the juris-diction of any court specified in the act, to have them annexed to the district of

THE FINANCES OF GREAT BRITAIN.

From an important Parliamentary paper recently published, containing an account of the Public Income and Expenditure of the United Kingdom for the years, 1843, 1844, and 1845, the following facts have been collected.

It appears that the national income has been increasing every year, whilst the

It appears that the national income has been increasing every year, whilst the concurrent expenditure has remained comparatively stationary. In 1842, the income amounted to £51,120,040, and the expenditure to £55,195,159, showing a deficiency of £4,075,119; in 1843 the income amounted to £55,501,740, showing a surplus of £1,433,282; and in 1844, the expenditure to £55,501,740, showing a surplus of £1,433,282; and in 1844 the income of the country amounted to £58,590,217, and the expenditure to £55,103,647, leaving a surplus of £1,433,282; and in 1844 the former surplus of £1,433,282; formed an aggregate surplus of £5,919,852, which more than covered the large deficiency of £4,075,119 noticed in 1842.

The sources whence our enormous revenue is derived chiefly consist of the following items. We select the component parts of the income received in 1844-45 (£58,590,217). Customs and Excise figure for £33,576,684, the relative proportions of each being £23,000,000, and £15,000,000 in round numbers; Stamps for £7,327,803; Assessed and Land Taxes for £4,429,870; the Property and Income Tax for £5,329,601; the Post-office for £1,705,068; Crown-lands for £441,583; ordinary revenues for £335,508.

The expenditure is also divided into a variety of items. In 1844, the cost of

traordinary and special item), for £355,005.

The expenditure is also divided into a variety of items. In 1844, the cost of collecting the Customs' revenue amounted to a sum of £1,406,486, and with the preventive service charges, amounted to £1,967,584. The expenses of collecting the Stamps and Assessed Taxes amounted to £2,800,536. Thus the mere expense of collecting the revenue amounted to nearly five millions sterling, or about 1-12th.

The civil Government costs the country £1,618,265. This includes a sum of

that of the Navy, and £1,924,312 for the expenses of the Ordnance.

REVENUE AND TAXATION.

REVENUE AND TAXATION.

A voluminors account, showing the gross receipt of Revenue derived from duties of Customs, Excise, and Stamps, and from assessed taves; the amount of all taxes repealed, expired, or reduced, and of new taxes imposed; and the increase or decrease or revenue, with the average price of wheat, &c., has been laid before the House of Commons, and affords a complete synopsis of tho subject. It appears that the gross receipt of revenue on the following articles, in the year 1844, amounted:—Customs' duties, to £24,107,349; Excise, to £14,469,336; Stamps, to £7,327,802; and Assessed Taxes, to £326,6350; total, £49,170,836. The amount of taxes repealed or reduced in the same year was £458,810, no new ones having been imposed. The increase of the actual produce as compared with the preceding year, was £2,287,266; and the average price of wheat, 51s, 4d. In 1842, the amount of the revenue on the same items of taxation amounted to £46,593,802; the amount of taxation repealed or reduced to £1,596,366, and the new taxes imposed to £529,989. The property-tax is not included in this abstract, the order of the house limiting that brauch of revenue to the assessed taxes. The gross total amount of the taxes repealed, expired, or reduced since January, 1813, amounts to the sum of £3,48,70,795, and the net amount to £32,132,030. Under the head of Customs, the net amount reduced was £10,662,662; under that of Excise, £14,378,400; Stamps, £1,224,033; and Assessed Taxes, £5,557,950. The gross total amount of taxes imposed during the same period amounted to £8,670,067, and the net amount thereof to £8,587,353; viz., £3,894,041 under the head of Customs; £4,169,300 under that of Excise, £209,501 under that of Stamps; and £315,011 under that of Assessed Taxes. It further appears that the grand total estimated gross produce of the Customs' duties imposed between 1825 and 1844 amounted to £9,190,266, and the net revenue, in 1842, to £1,498,944; in 1833, to £171,521; and in 1844, to £286,431. The concurrent estimated ga

amount to £1,034,470, whits the total amount of stamp duties imposed between 1828 and 1844 amounted to £25,321.

The gross produce of the property-tax (repealed in 1816) was £14,617,823, and the net amount £14,318,573. The gross total amount of the assessed taxes repealed or reduced, between 1816 and 1840, was £5,148,574, and the net amount, £4,943,196. The gross total amount of the property-tax, land-tax on personal estates, and assessed taxes, thus repealed, was £19,771,611, and the net total amount £19,266,983.

total amount £19,269,933.

The total estimated amount of the taxes repealed or reduced in Ircland from 1816 to 1341 amounted to £614,734, including the repeal of the house-tax, reductions in outside jaunting cars, and the rates in respect of windows, earriages, servants, horses, and dogs, and the repeal of the hearth money, window light (£200,000), carriage, servant, dog, horse, and eocachmaster duties, &c. The net amount of the additional duty of £10 per cent, on assessed taxes (imposed

by Mr. Baring) was, in 1840 (the first year of its imposition) £311,477

TRADE AND NAVIGATION.

TRADE AND NAVIGATION.

A Parliamentary paper has been issued, containing returns relative to Trade and Navigation for the five months, ending June 5, 1845. The whole range of trade is embraced, but we have room for a few articles only. Butter, for instance; in 1843, the quantity imported was 54,604 cwt.; in 1844, the quantity was 69,053 cwt.; in 1845, 93,433 cwt. Cheese has increased in the same proportion. The quantity of wheat imported in 1845 was 71,089 quarters—a very small amount compared with the imports of the preceding two years. Flax also fell off materially. In fruits, the imports increased more than twofold. Silk, skins, spices, rum, and brandy also increased. Sugar imported in 1843 was 1,633,792 cwt.; in 1844, 1,286,470 cwt.; in 1845, 1926,036 cwt.; and all for home consumption. Tobaceo has doubled in the last two years. When has also doubled in quantity since 1843, the quantity in 1845 being 2,720,344 gallons. Cotton wool from the British possessions is also on the increase, but foreign has fallen off. Sheep's and lamb's wool has increased from 11,234,621 lb. in 1843, to 18,421,323 lb. in 1845. The exports of coffee from the British possessions in 1843 were 31,246 lb. only; in 1844, 38,802 lb.; in 1845, 263,421 lb. The declared value of exports, coal, cotton manufactures, in 1845, in 1844, 1,180,286; in 1844, 1,

THE SLAVE TRADE.

A RETURN of the expenses of liberated Africans, and of the liberated African department in each year, from December, 1838, to December, 1844, including buildings and all contingent expenses, so far as the same can be made out from the records of the Audit Office, comprising maintenance, clothing, medical treat-

ment, fuel, light, salaries, and incidental expenses generally, has been appended to some returns and documents relative to the Slave Trade, and the treaties between Great Britain and Spain on that subject, lately obtained by Mr. Hutt, M.P. In 1839 the gross total amount of the above expenses was £21,967; in 1840, £16,257; in 1841, 6,025; in 1842, £33,800; in 1843, 18,802; and in 1844, £13,499; making a grand total of £150,354, for those six years. The total annual cost to the country of all the vessels employed in the suppression of the slave trade, including the wear and tear, amounted in 1839 to £80,393; in 1840, to £101,175; in 1841, to £73,954; in 1842, to £94,026; in 1843, to 88,239; and in 1844, to £217,527; of which £86,091 was consumed in wages, £47,263 in victurals, and £84,173 in wear and tear. The number of men and officers who died in 1844, engaged in the slave service on the coast of Africa, amounted to 66; and the number invalided to 83. It further appears, from this return, that between December, 1838, and December, 1844, there were 346 vessels scized and proceeded against either in the English or foreign mixed commission courts, or in the British Vice-Admiralty courts, on the ground of being concerned in the illicit traffic, and that 66 of them were seized with slaves on board, and 280 under the equipment article, or without slaves. That the net proceeds of the vessels, &c., proceeded against in the mixed courts amount to the sum of £7,412, of which one moiety (£33,706) has been paid over to the foreign Government, and the other moiety (£33,809) to the British captors. That the net proceeds of the vessels sween on text of the captors. That the net proceeds of the vessels exec, condemned for a breach of the act 5 George IV., cap. 113, amount to the sum of £6,518, which was distributed thus:—£1,911 to captors for soizures at sea; £898 to approx where the sessels were not scized at sea; £898 to approx where the sessels were not scized at sea; £808 to approx where the sessels were not scized at sea amount to the sum of £6,518, which was distributed thus:—£1,911 to captors for scizures at sea; £898 to enptors where the vessels were not scized at sea; £898 to the governor of the colony where the scizure was made; and £2,810 to the Crown, being the proportion flereto appertaining. That the sums paid for bounties to the captors on the slaves selzed amounted to £88,135; the tonnage bounties to the eaptors for the same period to £14,668; and the compensation paid by her Majesty's Government for illegal eaptures, during the same period to £1,405. The expenses of the mixed commission courts amounted in the year 1839 to the sum of £15,088; in the year 1840, to £15,581; in 1841, to £14,803; in 1842, to £13,889; in 1843, to £21,757; and in 1844, to £21,757. Various treaties in the French, Portuguese, and Spanish languages, with translations annexed, are given in the return. nexed, are given in the return.

MERCHANT SEAMEN.

MERCHANT SEAMEN.

The Lords Commissioners of her Majesty's Treasury having had under their consideration a representation of the Commissioners of the Customs, relative to the evasion of the clause in the Merchant Seamen's. Act, requiring merchant vessels to take on board and have in store certain quantities and descriptions of medicines, and their Lordships having communicated to the Lords Commissioners of the Admiralty on the subject, have approved of the suggestion of the Board, that vessels required to carry medicines by the act 7 and 8 Victoria, chap. 112, are to be occasionally boarded or visited by the revenue officers for the purpose of ascertaining the quantities of medicines, &c., shipped for the use of the erew; and directions have been issued to the principal officers of the revenue at the several ports of the United Kingdom, and other places traded to by British vessels, to take eare that their Lordships' orders are duly carried into effect from the present time. The 18th section of the act alluded to directs that every ship navigating between the United Kingdom, and any place out of the same, shall have and keep constantly on board a sufficient supply of medicines and medicaments suitable to accidents and diseases arising on sea voyages, in accordance with the scale which shall, from time to time, or at any time, be issued by the Admiralty; and every ship (except those bound to European ports, or to ports in the Mediterranean Sea) is also to have on board a sufficient quantity of lime or the Mediterranean Sea) is also to have on board a sufficient quantity of lime or lemon-juice, sugar, and vinegar, the same being served out to the crew whenever they shall have been consuming salt provisions for ten days: the lime or lemon-juice and sugar daily, after the rate of half an ounce each per day, and the vinegar weekly, at the rate of half-a-pint per week to cach person, so long as the consumption of salt provisions is continued; and in case of default in keeping the articles mentioned in store, the owne instance of 25; and in ease the master or any scanar receives any hart or injury in the service of the ship, the expense of providing the necessary surgical and medical advice, with attendance and medicines, and for his subsistence until cured or brought back to some port of the United Kingdom, is, together with the costs of his conveyance home, to be defrayed by the owner of the ship, without any deduction whatever on that account from the wages of the master or seaman.

PAY OF ARMY OFFICERS.

PAY OF ARMY OFFICERS.

By a revised warrant of her Majesty, issued in the summer of 1845, regulating the issues of staff and garrison pay, the following are the prescribed rates of Dnily Pay allowed for Staff-officers at home and abroad, who hold other military commissions or appointments:—General commanding in chief, if a field-marshal, £168s. 9d.; if below that rank, £9 9s. 6d.; general, £5 13s. 9d.; lieutenant-general, £3 15s. 10d.; major-general, £1 17s. 11d.; brigadier-general, £1 8s. 6d.; colonel, £1 2s. 9d.; adjutant-general, if serving at head-quarters, besides allowance of £500 a-year, £3 15s. 10d., if serving elsewhere, £1 17s. 11d.; deputy adjutant-general, if at head-quarters, 14s. 3d.; deputy-assistant, ditto, head-quarters, £4 18s. 3d., if serving elsewhere, £1 4s. 3d.; deputy-assistant, ditto, head-quarters, £4 18s. 3d., if serving elsewhere, £4 9s. 6d.; quarter-master-general, head-quarters, £17s. 11d.; brigadiant-general, £50s. 10d., if serving elsewhere, £1 17s. 11d.; deputy quarter-master-general, £5 15s. 10d., if serving elsewhere, £1 17s. 11d.; deputy quarter-master-general, sums varying from £1 7s. 6d. down to 14s. 3d.; deputy, ditto, 14s. 3d. down to 9s. 6d.; military secretary abroad, 19s; assistant ditto, 9s. 6d; aide-de-camp to Sovereign, 10s. 5d.; to general officer, 9s. 6d.; major of brigade, 9s. 6d. Dally rates of pay for staff or garrison officers holding only one military commission or appointment:—Inspector-general of hospitals, under 20 years' service, £1 4s.; above 25, £1 18s.; above 25, £2. Deputy inspector-general, under 20 years' service, £1 4s.; above 20 and under 25, £1 8s.; above 25, £1 2s.; above 25, £1 s. inder 25, 19s.; above 25, £1 2s.; above 25, £2 2s.; above 25, £2 2s.; above 25, £3 2s. above 25, £4 2s.; above 25, £4 2s.; above 25, £2 2s.; above 25, £4 2s.; above 25, £2 2

USEFUL DOMESTIC HINTS AND RECEIPTS.

THE POTATO DISEASE.

Mr. Herapath has widely circulated the following valuable information:—My attention has been given to the disease which has shown itself so extensively amongst the growing potatoes. I find, in almost every instance, that the epidermis of the stalk below the surface of the ground, is more or less in a state of decay, often disintegrated, and completely rotten; the leaves and branches accord with the state of that part of the stalk below the ground. The tuber, beneath the outer skin, is first spotted brown (like a bruised apple): these spots extend and penetrate towards the centre, quite changing the nature of the potato. Those near the surface are most injured; in some cases the lowest on the root are not at all affected, while the unper ones are usaless. It should therethe root are not at all affected, while the upper ones are useless. I should therefore expect that the longer the crop remains in the land, the greater the injury fore expect that the longer the crop remains in the land, the greater the injury will be. It seems, from the microscopic appearances, that the starch escapes injury for a long time after the skin and cellular parts are gone; and as the whole of the nutritive powers of the potato reside in the starch, I should recommend that wherever the disease has shown itself to any extent the crop should be dug whether ripe or not, and the starch extracted by the following simple process:—After washing the roots, let them be rasped fine and thrown into a large tub or other vessel; pour a considerable quantity of water, and well agitate and rub the pulp with the hands; all the starch or fecula will, from its great weight, fall to the bottom, while the skin and fibrous matter will be carried away by the water; wash the starch with one or two more waters, allowing it to fall after each washing; spread it upon cloths in a warm room to dry; in the other in the starch was the starch with one or two more waters, allowing it to away by the water; wash the starch with the of two holds waters, and wall it upon cloths in a warm room to dry; in this way about twenty or twenty-one pounds will be obtained from every hundred pounds of potatoes, and it contains as much nourishment as the original roots; it will keep any length of time, and might be used with flour to make bread, pies, puddings, &c., as well as farinaceous spoon-meat. This is much better than throwing away the diseased roots, and will furnish food for tens of thousands who might otherwise want it. who might otherwise want it.

The following is the method of curing bacon in Yorkshire:—After being killed it is allowed to hang twenty-four hours previous to being cut up; then rub one pound of saltpetre on a twenty stone pig (of fourteen pounds to the stone), and one and a half or two stones of common salt, taking care that it is well rubbed in; it is then laid in a tub kept for the purpose. After having laid a fortnight, it is turned over, and a little more salt applied, say half a stone; it hen remains a fortnight longer in the pickle-tub; it is then taken and bung up in the kitchen, where it remains two months to dry, but should the winter be far advanced, and dry weather set in, a shorter period night suffice; after being taken from the top of the kitchen, the inside is washed over with quicklime and water to preserve it from the fiy; it is then removed into a room not used by the family, away from beat, and where it will be kept perfectly dry, and is ready for use at pleasure. The smoking system is not generally adopted in York. The above plan never fails, if done with care; the saltpetre and salt should be of the best quality, for upon those articles depend the success in producing a good article for the table. The whitewash not only preserves it from the fly, but also prevents it from being rancid, as it would otherwise be. prevents it from being rancid, as it would otherwise be.

The common Goose begins to lay towards Candlemas, and after laying from nine to eleven eggs, she sets thirty days, and then brings out her little flock. If, however, she shows a wisb to set when she has only laid two or three eggs, she must be driven from the nest, or shu tup for a day or two. She will then take to lay again. One gander and five geese are the regular stock to begin witb: they will produce fifty goslings in a season. Geese are grazing birds; they love a common, but horses do not like their company in a field, as they object to feed after them. The berb called goose-grass they are immoderately fond of, and it is plentiful always under hedges during the gosling season. Water is important to geese, but they suceeed in situations where there is no pond: a large shallow pan filled with water, sufficiently capacious to admit of their washing in it, bas often answered the purpose; but a pool is most desirable. The goose-hovel should be low, well-thatched, and not facing into the farm-yard, otherwise pigs will get through the goose aperture. It should have a door also, for the owner to enter. The nests should be composed of straw, lined with hay, and the birds should be fed near their bome to allure them to it. If some of the goslings are batched before the others, they should be removed from the mother, kept warm in faunnel before the fire, and returned to her when the whole brood are hatched. Thin barley meal and water is excellent food for goslings, with chopped goose-grass; they soon learn to eat oats and feed themselves. Mow down hemlock, if any grows near the poultry yard: it is pernicious in its effects upon poultry. Fatten geese in small parties, as they love society. They should be cooped a month, fed plentifully with sweet cats and clean pure water in a narrow wooden trough. An experiment has lately been tried of feeding geese with turnips, cut up very fine, and put into a trough with water. The effect was, that six geese, weighing only nine pounds each when shut up, actually weighed twenty po The eommon Goose begins to lay towards Candlemas, and after laying from cyclopædia.

TO FATTEN POULTRY.

To fatten foultry.

The following will be found a quick and excellent food for fattening chickens. Set vice over the fire, with skimmed milk; let it boil till the rice is quite swelled out, then add a teaspoonful of sugar. Feed them three times a day in common pans, giving them only as much as will quite fill them at once. Let the pans be well washed, and set in clean spring water, that no sourness may be conveyed to the fowls, as that prevents them from fattening. Give them clean water or the milk of rice to drink. By this method, the flesh will have a clear whiteness, which no other food gives; and when it is considered how far a pound of rice will go, and how much time is saved by this mode, it will be found to be cheap. It is said that a portion of animal mixed with vegetable food, causes poultry to thrive rapidly, but they should be confined to a vegetable diet some time before they are killed. A quantity of charcoal, broken in small pieces, and placed within reach of the poultry, increases their appetite, and promotes digestion.

To keep rabburs from barking trages.

In order to keep fruit trees safe from these depredators take one spoonful of hot slacked lime, one ditto of clean cow's dung, half ditto soot, one handful of flour of sulpbur, and mix all together with soft water or cow's urine, until they acquire the consistency of thick paint; then paint the trees sufficiently high to be out of the reach of these vermin. The trees should be gone over in the beginning of winter, or on the first appearance of frost, choosing a dry day, if possible, for the operation. The sulphur and soot, I presume, are the principal intredicients. The cow dung is added merely to make the others stick to the trees. I have not tried sulphur matches, as recommended, but I have no doubt of their efficacy. With the above mixtures I have protected numbers of laburnums, near the sides of walks, for sixteen years, with the greatest success, where there are multitudes of hares, and rabbits also frequently make their appearance. Exce

(Greenwich Receipt.) In season in July, August, and September. This delicate little fish requires great care to dress it well. Do r Do not touch it with the hands, but throw it from your dish or basket into a cloth, with three or four handsful of flour, and shake it well; then put it into a bait sieve, to separate it from the superfluous flour. Have ready a very deep frying-pan, nearly full of boiling fat, throw in the fish, which will be done in an instant: they must not be allowed to take any colour, for if browned they are spoiled. Lift them out, and dish them upon a silver or earthenware drainer, without a napkin, plling them very bigh in the centre. Send them to table with a cut lemon, and silese of brown bread and butter on a plate.—From Modern Cookery, by Eliza Acton; an excellent work.

HER MAJESTY'S PUDDING.

HER MAJESTY'S FUDDING.

Infuse in a pint of new milk half a pod of vanilla, cut into short lengths, and bruised; sir/mer them gently together for twenty minutes, and strain the milk through muslin to half a pint of cream; put these again on the fire in a clean saucepan, with three ounces of fine sugar, and pour them, when they boil, to the beaten yolks of eight very fresh eggs. Stir the mixture often until it is nearly or quite cold, and boil it as gently as possible for an hour in a well-buttered mould or basin that will just hold it. Let it stand for four minutes at least before it is turned out; dish it carefully, strew, and garnish it thickly with ranches of preserved barberries, or send it to table with a rich syrup of fresh fruit, or with clear fruit-jelly, melted. We have had often a compote of currants, cherries, or plums served, and greatly relished with this pudding, which we can recommend to our readers as an extremely delicate one. The flavouring may be varied with bitter almonds, lennon-rind, uoyeau, or aught else which may be better liked than the vanilla. New milk, one pint; vanilla, half pod: twenty cueries, or piums served, and greatly refished with this pudding, which we can recommend to our readers as an extremely delicate one. The flavouring may be varied with bitter almonds, lemon-rind, uoyeau, or aught else which may be better liked than the vanilla. New milk, one pint; vanilla, half pod: twenty minutes. Cream, half-pint; sugar three ounces; yolks of eggs, cight one hour. The cook must be reminded that unless the eggs be stirred briskly as the boiling milk is gradually poured to them, they will be likely to curdle. A buttered paper should always be put over the basin before the cloth is tied on, for all custard puddings.—*Ibid*.

PRINCE ALBERT'S PUDDING.

Beat to a cream half a pound of fresh butter, and mix with it by degrees an equal weight of pounded loar-sugar, dried and sifted; add to these, after they have been well beaten together, first the yolks, and then the whites of five fresh eggs, which have been thoroughly whisked apart; now strew lightly in, half a eggs, which have been thoroughly whisked apart; now strew lightly in, half a pound of the finest flour, dried and sifted, and last of all, half a pound of jar raisins, weighed after they are stoned. Put these ingredients, perfectly mixed, into a well-buttered mould, or floured cloth, and boil the pudding for three hours Serve it with punch sauce. We recommend a little pounded mace, or the grated rind of a small lemon, to vary the flavour of this eucellent pudding; and that when a mould is used, slices of candied peel-should be laid rather thickly over it atter it is buttered. Fresh butter, pounded sugar, flour, stoned raisins, each half a pound; eggs, five: three hours.—Lid.

TO MULL WINE. (An excellent French Receipt.)

Boil in a wineglassful and a half of water a quarter of an ounce of spice (cinnamon, ginger slightly bruised, and cloves), with three ounces of fine sugar, until they form a thick syrup, which must not on any aecount be allowed to burn. Pour in a pint of port wine, and stir it gently until it is on the point of boiling only: it should then be served immediately. The addition of a strip or two of orange-rind cut extremely thin, gives to this beverage the flavour of bishop. In France light claret takes the place of port wine in making it, and the better kiuds of vin du pays are very palatable thus prepared. Water, one and a half wineglassful; spice, quarter of an ounce, of which fine cloves, twenty-four, and of remainder, rather more ginger than cinnamon; sugar three ounces: fifteen to twenty minutes. Port wine or claret, oue pint; orange-rind, if used, to be boiled with the spice. Sherry, or very fine raisin or ginger wine, prepared as above, and stirred hot to the yolks of four fresh eggs, will be found excellent. Boil in a wineglassful and a half of water a quarter of an ounce of spice (cin-

(An American Receipt.)

Strip the tender leaves of mint into a tumbler, and add to them as much winc, brandy, or any other spirit, as you wish to take. Put some pounded ice into a second tumbler; pour this on the mint and brandy, and continue to pour the mixture from one tumbler to the other until the whole is sufficiently impregnated with the flavour of the mint, which is extracted by the particles of the ice coming into brisk contact when changed from one vessel to the other. Now place the glass in a larger one, containing pounded ice: on taking it out of which it will be covered with frost-work.

"GREAT FACTS" FOR "LITTLE FOLKS."

The "United Association of Journeymen Confectioners," whose confederation includes Edinburgh, Glasgow, Aberdeen, Abronath, Leith, Pertlh, Dundee, and St. Andrew's, having come to a resolution to "put down" adulteration, have published a statement to the effect that a substance called "mineral white" (which interest the publications of the publication of the publication of the effect of the publication of the pub lished a statement to the effect that a substance called "mineral white" (Which is simply plaster of Paris or stucco) is largely used in the manufacture of sweet-meats. Here is the abominable receipt for adulterated lozenges:—12lb. of plaster of Paris! 12lb. of starch! 12lb of sugar. A grandchild, and domestic, of a gentleman in Clare, who had partaken of some confectionary and bridecake at a nuptial party, were seized with dangerous illness soon after, and but for the skilful remedies quickly applied, the lives of both, in all probability, would have been foreited. On inclusivity we according that many articles of controlled to the property of the skilful remedies quickly applied, the lives of both, in all probability, would have been foreited. have been forfeited. On inquiry, it was ascertained that many articles of confectionary prepared for festive occasions are strongly impregnated with poisonous ingredients, especially in the exterior ornamental parts of these bon bons.

DEATH FROM EATING MUSHROOMS.

Last autumn, five persons were poisoned at Paris, from eating funguses gathered by one of the party in the Bois de Boulognc, and supposed by him to be mushrooms. An inquest was lately held at Ipswich, to inquire into the circumstances connected with the death of Mr. John Carr, of that town, who, according to the evidence of Mr. Bullen, surgeon, died from eating mushrooms. It appears that mushrooms were grilled (not stewed or boiled) for dinner: one of them was a very large one, very black underneath, and in fact only fit for making catsup. The whole of this large one was eaten by the deceased, and part of the smaller one also. The son partook of a part of the smaller one. It was a real mushroom; "but," said the surgeon, "it should be understood that all fungous matter is really poisonous at some parts of their growth." By grilling the mushrooms, the poisonous matter remained in them, and the deceased laving no teet bhe swallowed it without masticating it. He was perfectly narcotised for the mushrooms, the poisonous matter remained in them, and the deceased having no teet he swallowed it without masticating it. He was perfectly narcotised for hours. Musbrooms are of a narcotic and acrid nature. Deceased was perfectly senseless and powerless from the moment he was taken ill. There were no symptoms of apoplexy; in fact they were the very reverse. His pulse was about fifty-six, and showed that he was under the influence of some strong poison. It is extremely important that the public should take this as a warning in the use of mushrooms; they are at all times indigestible, but they should never be taken when the underneath part is black, but only when they are of a light colour.

PAGE.

BIELA'S COMET.

ON FEBRUARY 28th, 1826, a Comet was discovered by M. Biela, an Austrian officer, and which proved to be one of short period. The time of describing its orbit, is about 6\(^2\) years; it was observed in 1832, again in 1839, and from calculations of the observed phenomena, it is predicted to return, and be the nearest to the Sun on February 11th, 1846. The following ephemeris is formed from that of Del Cav. Giovanni Santini, Director of the Observatory of Padua, and which extends from 1845, November 23rd., to 1846, May 6th, and to which we refer those of our readers who may wish to know more particulars of it than is stated below

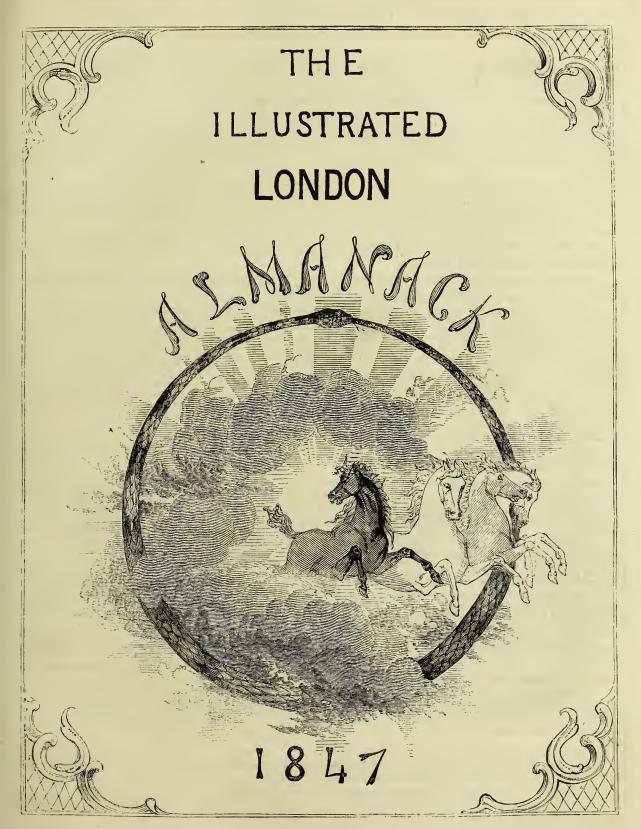
1846. Month and Day.		At Midnight.			ich Mean he Comet.	Point of the	Distance of the Comet in	
		Right Ascen- sion of	Declina- tion of	Southing or pass- ing the	Setting.	Where the Comet sets.	Millions of Miles from	
		the Comet.	Comet.	Meridian			The Sun.	The Earth.
		и. м.	0 1	н. м.	н. м.			
January	2	23 26	0 13 N	4 39 P.M.		little N. of W.	1014	81#
	6	23 36	0 18	4 33	10 37	W.	971	79#
	10	23 47	0 14	4 28	10 30	W.	94	771
••	14	23 58	0 28	4 24	10 24	W.	911	75
••	18	0 10	0 42	4 20	10 19	little S. of W.	89	721
	22	0 23	0 58	4 17	10 14		864	69%
	26	0.37	1 19	4 I5	10 11		845	66%
	30	0 51	1 43	4 14	10 7		831	634
February	3	1 6	2 13	4 13	10 4		821	60½
	7	1 22	2 48	4 13	10 3		81호	57층
	11	1 40	3 30	4 15	10 I	near W. by S.	814	541
• •	15	1 58	4 19	4 18	10 0		811	514
**	19	2 18	5 17	4 22	9 58		857	481
• •	23	2 40	6 20	4 28	9 59		834	451
••	27	3 3	7 31	4 35	,10 1	W. by S.	85	43
March	3	3 29	8 45	4 45	10 5		86#	401
	7	3 57	10 1	4 58	t0 11	near E.S.E.	891	384
	-11	4 27	11 14	5 12	10 18		914	371
	15	4 59	12 20	5 28	10 28		941	36
	19	5 33	13 12	5 46	10 40		97 3	351
	23	6 7	13 49	6 5	10 58	E.S.E.	101	354
	27	6 41	14 8	6 25	11 15		1041	361
	31	7 15	14 7 8	6 41 p.m.	11 31P M		$105\frac{7}{4}$	33
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From the above it will be seen that the Comet will approach the Sun till about February 11th, at which time it will be a little more than 81 millions of miles distant from him; after that time it will move from the Sun. It will, however, continue to approach the Earth, till near the end of March, at which time it will be the nearest to the Earth, being then about thirty five millions of miles distant; after this time it will recede from the Earth. At the appearance of this Conet, in 1832, Sir John Herschel, in a communication made by him to the Royal Astronomical Society, on the 9th of November, 1832, stated that on the evening of the 23rd of September previous, he saw a whole cluster of stars of the six-teenth magnitude, almost through the very centre of Bicla's Comet. There is no prospect of this Connet being seen except through a telescope. The best times to look for it will be, in January, between half-past five o'clock and seven o'clock; in February, between 6h, and 8h, ; and in March, between 7h, and 8h, in the evenings.

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LONDON:

PUBLISHED AT THE OFFICE OF THE ILLUSTRATED LONDON NEWS,
198 STRAND.

INTRODUCTION.

THE present or Third ILLUSTRATED LONDON ALMANACK is submitted to the public by the Proprietors, with confidence of its superiority over its predecessors.

The work was commenced in 1845, with a view of furnishing a Repository of Useful Knowledge of permanent value, for constant reference, in Astronomy, Astronomical Occurrences, and the Natural History of the Year; and the peculiar value of the present Almanack, in these respects, will be best shown by the following explanatory summary:—

For information relative to the ASTRONOMICAL DEPARTMENT, which has been entirely under the Superintendence of JAMES GLAISHER, Esq., F.R.A.S., and of the Royal Observatory at Greenwich, the reader is referred to

Sun Rising and Setting.—In the computation of the Times of the Rising and Setting of the Sun, for this Almanack, a correction of 34' for refraction has been taken into account; the effect of refraction causes him to appear above the horizon sooner in the morning, and later in the afternoon than he actually is. So that at the time indicated in the Calendar pages, as that of Sunrise or Sunset, his centre is 90 deg. 34m. from the Zenith; though he appears to he only 90 deg. The amount of the correction for refraction varies at every place with the declination of the Sun; and on the same day is different in different latitudes. An Auxiliary Sun-rising Table has heen computed, including the correction. (See page 54). By the use of this table, the times of Sun Rising and Setting at any place in the British Isles is readily found by attending to the rules there given.

Moon Rising, Setting, and Southing.—In calculating the time of the Moon's Rising and Setting, 34' has been allowed for refraction, and 57' for parallax; and the calculations are adapted for London. They will be sufficiently near for all places having the same latitude as that city, (for list of these places see auxiliary table for Sun Rising in page 54). The times will be very nearly the same at every place in the British Isles when the Moon is on the Equator. At times when she has North Declination she will rise earlier, and set later at all places N. of London; and she will rise later and set earlier at all places S. of London than the times at London.

The Times of Southing have been computed for London, and they are true for all places having the same longitude, or for all places situated due N. or S. of London. To all places East of this N. and S. line, the times are somewhat earlier; and to all places W. of the same line, they are somewhat later than those given in the Almanack.

DURATION OF MOONLIGHT.—To enable persons by a cursory glance to see the hours of Moonlight, as well as to observe the comparative degrees of it, illustrated or tinted columns are given. At times when the Moon is below the horizon, the hour space is dark, and it is light when she is above the horizon; and these are sufficiently near for the whole country.

EQUATION OF TIME.—The interval of time between the Sun being on the Meridian or Southing, on one day, and his being on the Meridian or Southing the next day, is not always the same; and, therefore, Solar days are not equal in duration; about one-half are a little more, and about one-half are a little less than 24 hours. A clock regulated by the Sun, or the Sun-dial, would need frequent adjustment; to avoid this, an imaginary sun is supposed to move, so that the interval of time hetween its consecutive passages over the Meridian is always the same, viz., 24 hours; such a time represents a mean solar day, and it is the average of all the apparent solar days in a year. The difference of time hetween the imaginary Sun and the true Sun passing the Meridian, is called the "Equation of Time," the amount of which at noon on every day, is inserted in the Almanack. There are only four days in the year when apparent and mean time are the same, or the Equation of time is nothing. In the year 1847, these days are April 15, June 15, September 1, and December 25. Between April 15 and June 15, and hetween September 1, and December 25, the imaginary Sun follows the true Sun, and the "Equation of time" is subtractive; the true time heing earlier than that shown by the Sun. Between June 15 and September 1, and hetween December 25 and April 15, the imaginary Sun precedes the true Sun, and the "Equation of time" is additive. By the assistance of the numbers in this column, a clock can he set hy a sun-dial as follows. When "Add" is placed above the numbers opposite to the day, then the clock ought to to be set fast on the time shown by the sun-dial, and when "Subtract" is above the numbers, the clock ought to he set so much slower.

Example—When the Sun shows noon on the sun-dial on June 1, and July 1, what are the true times?

On June 1, from the Almanack, the Equation of time is, Suhtract, 2m. 36s., therefore the clock should be 2m. 36s. before noon; so the true time is 11h. 57m. 24s. A.M. On July 1, from the Almanack, the Equation of time is, Add, 3m. 22s., therefore the clock should be 3m. 22s. afternoon, or the true time is 0h. 3m. 22s. P.M.

The greatest difference between mean time (common clock time) and apparent time (time by the sun-dial) occurs on the 3rd of November, and it is 16m. 17s. subtractive; and the instant the Sun's centre is on the Meridian, or Southing, or the time by a sun-dial indicates noon, the time by a clock regulated to mean time, should be 16m. 17s. to noon, or the true time is 11h. 43m. 43s. A.M. On the 11th day of February, the greatest additive difference occurs, viz., 14m. 32s., and when the Sun is on the Meridian, or noon is shown by a sun-dial, a clock regulated to mean time, should be 14m. 32s. after noon, or the true time would be 0h. 14m. 32s. P.M. All the calculations throughout this Almanack have been adapted to London mean time. Mean time is easily reduced to apparent, by applying the Equation the reverse to that mentioned in the Almanack.

ASTRONOMICAL PHENOMENA DURING THE MONTH.—The constellation in which the Moon is on every day is always mentioned, so that persons can very easily learn the Zodiacal constellations by this means; when she is on the Equator, and when she has N. declination, which is the interval of time hetween being on the Equator and going N. till she is on the Equator again; and she has S. declination during the interval of time of heing on the Equator and going S. till she is again on the Equator. Also, all the interesting phenomena relative to the Planets are mentioned. In these accounts frequent mention is made of angular distance, (For method of estimating, see Almanach of last year, October).

Eclipse of the Sun on October 9.—This fine Eclipse will be visible throughout the British Isles, and annular across the whole of France, and the south of England (See the Chart). A very great diminution of light during the continuance of the Eclipse is not to be expected. It is possible that the Planets Venus and Jupiter may be visible to the naked eye, Mars is also above the horizon, and Mercury will rise at 7h. 33m.

A.M., being about the time of the middle of the Eclipse.

TWILIGHT.—Twilight is the faint light which precedes sunrise or follows sunset. It is caused by a portion of the Sun's rays, which, after refraction, are reflected at the surface of our atmosphere. The time has been calculated on the supposition that day breaks when the Sun is 18 deg. below the horizon, the quantity usually assumed, hut which is probably too great by 4 or 5 degrees.

Phases of the Moon.—The times of the Phases of the Moon are computed for the Meridian of London, but may be easily reduced to that or any other Meridian, by adding or subtracting the difference of longitude in time, according as the same is E. or W. of that city.

LE VERRIER'S PLANET.—In our Almanack it will be seen that the Planet Uranus is always placed last, it heing supposed that it was the last and farthest of the Planets from the Sun; hut, the month of September, 1846, witnessed one of the most remarkable triumphs of Theoretical Astronomy ever recorded; viz., the discovery of a New Planet, heyond Uranus, far exceeding him in size. Its existence was established; its orbit and its place in the heavens pointed out, three weeks before its discovery. The merit helongs to M. Le Verrier alone; who performed these calculations, and published them for the guidance of Astronomers. The history of the discovery, with other particulars, will be found at page 55.

All the headings of the other tables, &c., explain themselves.

On the Third Page of each month is a series of tableaux of memorable events, carrying out in a true spirit what is usually and properly introduced into our Almanack; not for occasional reference only, but to cherish respect for these landmarks of British History.

The Fourth Page of each month, as in last year's Almanack, is devoted to Natural History. The whole of this portion is from the very able pen of the well-known Author of several Works on Botany and Natural History, Mrs. Loudon; and the interesting series of Illustrations to this department has been drawn and engraved by Miss Loudon, under the immediate superintendence of Mrs. Loudon; and will, therefore, be a sufficient guarantee of sound information.

The Illustrations heading the Calendar, are from the masterly pencil of WILLIAM HARVEY, and engraved in the first style of art, by Linton, illustrative of the National Sports in the countries of the Earth particularised.

The remaining portion of the Almanack is fully occupied with Useful Tables, &c., corrected to the latest moment before going to press.

The Index of the Contents will be found upon the last page.

ON THE CALENDAR.

THE SUN naturally regulates the beginning, durations, and ends of the seasons; and the Calendar is constructed to arrange the smaller portions of the year. The Calendar divides the year into 12 months, containing 365 days. It is desirable that the same parts of the same seasons should be always denoted by the same days of the same months.

same days of the same months.

This would be the case if the civil year of 365 days were equal to the Astronomical year, but the latter is greater: and if the Calendar should invariably distribute the year into 365 days, each part of the year, (the vernal equinox for instance), would in progress of time happen on every day of the civil year.

Julius Cæsar adopted the mode of correcting the Calendar by making every fourth civil year to consist of 366 days. But this Julian correction itself was found to need correction, as the length of the year became known to greater precision. This correction at the time of Pape Gregory in 1589 had arounted to found to need correction, as the length of the year became known to greater precision. This correction, at the time of Pope Gregory, in 1582, had amounted to 10 days, the vernal equinox falling on the 11th instead of the 21st of March, at which period it fell correctly at the time of the Council of Nice in the year 325. To obviate this inconvenience, Gregory ordered that the day succeeding the 4th of October, 1582, instead of being called the 5th should be called the 15th; thus suppressing 10 days. This act reformed the Calendar: in order to correct it in future ages, it was prescribed that the intercalary day of the Julian correction should be omitted at certain convenient periods.

The adoption of this change, which is called the Gregorian, or new style, did not take place in England till 1752. It was then enacted that the year should commence on the 1st of January, instead of March 25; and that in the year 1752, the days should be numbered as usual till September 2, when the day following should be accounted the 14th of September, thus omitting 11 days.

THE PRINCIPAL ARTICLES OF THE CALENDAR, FOR THE YEAR OF OUR LORD 1847.

Gregorian or New Calendar.	Julian or Old Calendar.	New Calend	lar.	Old Calendar.
Dominical Letter C	E	Solar Cycle	8	8
Golden Number 5	5	Epact	14	25
Roman Indiction 5	5			

DOMINICAL LETTER.—The seven days of the week, reckoned as beginning on the 1st day of January, are designated by the first seven letters of the alphabet; and the one of these which denotes Sunday, is the Dominical Letter. As the present year begins on Friday, call it A, the next is B, and C falls on the Sunday, and this letter answers to the Dominical letter. If there were exactly 52 weeks in the year the Dominical letter would be always the same.

the year the Dominical letter would be always the same.

The Golden Number.—At the end of every 19 years the new and full Moons happen at very nearly the same times of the year. This "Cycle of the Moon" terminated the year before the Christian era. Therefore, to find the golden number, or number of year in this cycle, add 1 to the date; divide the sum by 19; the quotient is the number of cycles of the moon since the birth of Christ, and the remainder is the golden number, so called from its being marked by the Greeks in letters of gold. As the present year is 1847, this number increased by 1 is 1848, and divided by 19, is 97 cycles, and there remains 5, the golden number.

The South Crost is the number of cycles that have the states hefore the Sunday.

Is 1848, and divided by 19, is 97 cycles, and there remains 5, the golden number.

THE SOLAR CYCLE, is the number of years that elapse before the Sunday's throughout the year happen on the same days of the month. This cycle is 28 years; and 9 years of the Cycle had elapsed before the birth of Christ. Therefore, to find the cycle of the Sun, add 9 to the given year, and divide by 28; the quotient is the number of cycles since the birth of Christ; and the remainder is the cycle of the Sun, as, for this year, add 9 to 1847 the sum is 1856; which, divided by 28, the quotient is 66 cycles, and the remainder is 8, the solar cycle.

THE FEACT is the Moon's are for the 1st day of Lanuary and its the difference of the cycle.

THE EPACT is the Moon's age for the 1st day of January, and it is the difference between the beginning of the solar and the lunar year.

THE ROMAN INDICTION.—This cycle has no connexion with the motions of the Sun and Moon, except that it consists of 15 years. It was established by the Emperor Constantine in the year 312, regulating certain payments due by the Roman Landholders to their Government.

CORRESPONDENCE OF THE YEAR 1847 WITH ANCIENT ERAS. The year of the Julian Period $\cdot\cdot\cdot$ 6560 | From the foundation of Rome $\cdot\cdot\cdot$ From the first Olympiad $\cdot\cdot\cdot$ 2623 | From the epoch of Nebonasser $\cdot\cdot$

l	FIXED AND MOVEABLE I	ES.	TIVALS, ANNIVERSARIES, &c.	
ı	Epiphany Jan.	6		23
ı	Martyrdom of King Charles I.	30	Birth of Queen Victoria	24
ŀ	Septuagesima Sunday	31	Restoration of King Chas. II.	29
ı	Quinquagesima-Shrove Sun. Feb.	14	Trinity Sunday	30
ı	Ash Wednesday	17	Corpus Christi June	3
ı	Quadragesima-1st Sunday?	21	Accession of Queen Victoria	20
ŀ	in Lent	21	Proclamation	21
l	St. David March	1	St. John Baptist-Midsum-7	
ı	St. Patrick	17	mer Day	24
ı	Annunciation-Lady Day	25	Birth of Dowager Queen Aug.	
ı	Palm Sunday	28	Adelaide Aug.	13
ı	Good Friday April	2		29
ı	EASTER SUNDAY	4		5
ı	Low Sunday	11	Birth of Prince of Wales	9
ı	St. George	23		28
ł	Rogation Sunday May	9	St. Andrew	30
İ	Ascension Day-Holy Thurs-7		St. Thomas Dee.	21
ł	day	13	Christmas Day	25

ASTRONOMICAL SYMBOLS AND ABREVIATIONS EXPLAINED.

O The Sun (The Moon Mercury Venus or 5 The Earth Mars Vesta Juno Pallas Ceres Jupiter Saturn	Quadrature Proposition Ascending Node Descending Node Descending Node N. North E. East S. South W. West Degrees Minutes of Are Mesconds of Are H Hours	S Seconds of Time ↑ Aries 8 Taurus II Gemini 5 Cancer 9 Leo 11 Virgo Libra 12 Sagittarius 13 Capricornus 14 Aquarius
H Uranus Conjunction	M Minutes of Time	* Pisces

Two celestial objects are said to be in conjunction when they have the same longitude; to be in quadrature when their longitudes differ by 90 deg.; and to be in opposition when this difference amounts to 180 deg

CALENDAR OF THE JEWS, FOR THE YEAR 1847.

5607			1846	_		NEW MOONS AND FEASTS
Tebeth			December		2	
"		10			2	Fast: Siege of Jerusalem
		- 1	1847			
Schebat	• •	1	January	••	18	Elias
"		5 9			22 26	Xylophoria
**			February		9	Fast: Memory of the War of the Ten Tribes
**			- 001 441			against Benjamin
Adar		1	,,		17	
,,		7	35		23	Fast for the Death of Moses
99		13	March	• •	1 2	Fast: Esther Purim: Feast of Haman
>>		15	55		3	Schuschan Purim
Nisan		1	"		18	· ·
19			April	٠.	1	Passover begins
"		16	,,		2	Second day
"		21	"		7	Seventh day
"		22	,,		8	Passover ends
Y: 37		26	"		12 17	Fast: the Death of Joshua
Ijar	••	7	"		23	Consecration of the Temple
"		14	"		30	Pasah Schemi
,,		18			4	Lag Beomer
Sivan		1	,,		16	
,,		6	"		21	Pentecost Holidays, the Feast of Weeks
,,		7	"		22	Second day
,,, 		15	June		30 15	Victory of Maccabeus
Tamuz	••		July	••	1	Fast: Seizure of the Temple by Titus
Ab"		î	,,		14	- more possible of the compress of creat
.,		9	33		22	Fast: Destruction of the Temple
Elul	• •	1	August	••	13	
33		3	**		15	Selihot: beginning of the 40 days prayer
"		7	Contombon		19 10	Consecration of the walls of Jerusalem Fast: the end of the year 5607
5608		29	September	••	10	rast. the end of the year ooo;
Tisri		1	.,		11	Feast of the new year, 5608
11		2	"		12	Second day
"		3	29		13	Fast: Death of Gedaliah
"		7	"		17	Fast: for the Worship of the Golden Call
,,		10	"		20 25	Fast; Day of Atonement Feast of Tabernacles
99		15 16	"		26	Second day of the Feast
"			October		1	Feast of Branches
"		22	"		2	End of the Feast of Tabernacles
"		23	"		3	Feast of the Law
Marchesvan		1	"		11	D. J. O. H. D. J. Hamada . A.
777		6	Managabas		9	Fast: for the Destruction of Jerusalem
Kislev	••		November December		3	Feast of the Dedication of the Temple
Tebeth		25		•••	8	2 cast of the Dedication of the Temple
	•••	10	"		17	Fast: the Siege of Jerusalem
"			17			

	THE MO	ONTHS OF	THE TURKIS	H CA	LENDAR.	
Hegiri	i; 1263,	Moharrem 1	(New year)	falls on	December 20,	1846.
••		Safar 1	**	••		1847.
••	••	Rebi el-Awwel	1	• •	February 17,	
••	••	Rebi el-Accher		••	March 19,	• •
••	••	Dschemâdi el-		••	April 17,	••
	• •	Dschemâdi el-	Accher l	••	May 17,	••
••	**	Redscheb 1	••	**	June 15,	• •
••	••	Schabân 1		**	July 15,	••
••		Ramadan 1 (M	onth of Abstinence served by the Turks)	••	August 13,	••
		Schewâl 1	**	• •	September 12,	••
••		Dsú'l-Kade I	••		October 11,	••
••	••	Dsú'l-hedsché	1	••	November 10,	• •
••	1264,	Mobarrem 1	••	••	December 9.	••

LAW TERMS, 1847.

As Settled by Statutes 1, William IV., Cap. 70, S. 6 (passed July, 23rd, 1830): Cap. 3. S. 2 (passed, December 23rd, 1830.)

	Op. 0, .	- · · · ·				,		
Hilary Term			Begins	Januar	y 11	Ends	Februar	y 1
Easter Term	••	••	"	April	15	11	May	8
Trinity Term	••	••	1+	May	22		June	12
Michaelmas	••	••	"	Nov.	2	99	Nov.	25

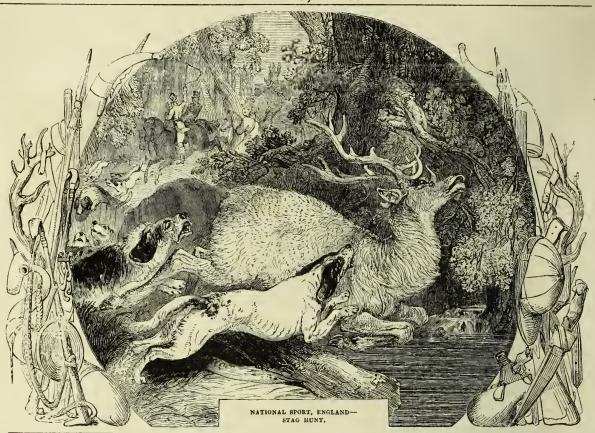
UNIVERSITY TERMS, 1847. OXFORD.

TERMS	BEGINS	ENDS		
Lent	January 14 April 14 May 26 October 11 The Act, July 6	March 27 May 22 July 10 December 17		

CAMBRIDGE.

TERMS	BEGINS	DIVIDES	ENDS
Lent Easter Trinity Michaelmas	Jan. 13 April 14 Oct. 10 The Commen	Feb. 18, Noon May 27, Noon Nov. 12, Midnight cement, July 6	March 26 July 9 Dec. 16

JANUARY, 1847.



l _			-						
	1.	1	2	SUN.	MOON.	DURATION OF MOONLIGHT.	HIGH WATER EQUA- = E		
M	W	ANNIVERSARIES, OCCUR-		DECLINA-	RISES. SETS.	Before Suurise. After Sunset.	Morning Afternoon Add.		
D	D	RENCES, FESTIVALS, &c.	RISES. SI	SOUTH.	SOUTHS.	O'Clock. 2h. 4h. 6h.	Morning Afternoon Add.		
-	-		н. м. н.	M. Deg. Min.		21. 41. 61. 2			
1 1	W	Circumcision	8 8 4	0 23 2	4 99 7 99		1 42 2 6 3 43 1		
2	T C	The Sun rises 3 deg. S. of S.E.		*	brorning.				
2	S	hy E.	8 8 4	1 22 57	5 31 0 22 8 5	15	2 26 2 47 4 11 2		
3	S	2ND SUNDAY AFT.	8 84	2 22 52	6 35 1 10 8 39	16	3 7 3 26 4 39 3		
	M	Christmas	8 84	3 22 46	7 37 1 57 9 9	17	3 43 3 59 5 7 4		
	1 1	a totale Santi M Ou				1900mi 1900mi			
5		α Arietis Souths 7h. 0m. r.m	8 84	4 22 39	8 42 2 41 9 32	18	4 18 4 36 5 34 5		
6	W	Epiphany, Twelfth	8 74	6 22 33	9 43 3 25 9 58	19	4 51 5 9 6 1 6		
1 7	Тн	Day	8 74	7 22 25	10 46 4 7 10 21	20	5 26 5 43 6 27 7		
1 s		St. Lucian	0 -1	1 1					
			0 / 4		11 48 4 49 10 43	21			
9	S	a Ceti Souths 7h. 39m. r. m	8 64	9 22 9	Morning 5 31 11 6		6 39 6 59 7 18 9		
10	S	IST S. AFT. EPIPH.	8 64	10 22 1	0 51 6 15 11 30	23	7 18 7 44 7 42 10		
11	M	Hilary Term begins	9 5 1	11 21 52	1 58 7 2 11 59	VIIIIII	8 14 8 50 8 7 11		
111	IVI	Plough Monday	0 14	10 21 42		24			
12	Tυ		8 4 4	13 21 42	3 4 7 51 Afternoon	25	9 23 9 58 8 30 12		
13	W	Cambridge T. beg.	8 34	14 21 32	4 9 8 43 1 15	26	10 36 11 13 8 53 13		
14	Тн	Oxford Term beg.	8 24	16 21 22	5 10 9 38 2 4	27	11 49 9 16 14		
15		The Sun rises S E. by E. and	0 0 1	10 21 11	6 9 10 36 3 5		0 18 0 45 9 37 15		
		Bets S W. by W.	0 2 4	10 21 11					
16	1	Bat. Corunna, 1809	8 14	19 21 - 0	7 1 11 35 4 18	29	1 10 1 36 9 58 16		
17	S	2ND SUNDAY AFT.	8 04	21 20 48	7 35 Afternoon 5 31		1 59 2 23 10 19 17		
18		EPIPHANY	7 59 4	22 20 36	8 23 1 32 6 52		2 46 3 9 10 38 18		
19	Tυ	Capella Souths 9h. 10m. P.M.	7 58 4	24 20 24	8 56 2 28 8 12		3 31 3 53 10 57 19		
1 -	TY	Rigel Souths at					1 1 1 1		
20	W	Rigel Souths at	7 57 4	25 20 11	9 25 3 22 9 32	3	4 14 4 37 11 15 20		
21	Тн	911. Sin. P. M., 30 deg. mgn	7 56 4	27 19 58	9 55 4 15 10 49	4 4	5 0 5 23 11 33 21		
22	F	a Orionis Sou. 9h. 40m. P.M.	7 55 4	29 19 45	10 22 5 7 Ma ning	5	5 45 6 9 11 50 22		
23	s		7 54 4	31 19 31	10 51 5 59 0 5		6 33 6 57 12 5 23		
E .		9 G	, 0 1 1			ν – – – – – – – – – – – – – – – – – – –			
24	S	3RD SUNDAY AFT.		33 19 17	11 23 6 51 1 19	7 7	7 22 7 32 12 20 24		
25	M	EPIPHANY Pitt died,	7 51 4	35 19 2	Afternoon 7 43 2 28		8 23 9 0 12 35 25		
26	Tu		7 50 4	37 18 47	0 43 8 35 3 32		9 37 10 17 12 48 26		
27	XX	Aldebaran souths		39 18 32		10	10 58 11 36 13 1 27		
2/	AA	at 8h, 1m. P M. 55 deg high				10			
28	1 1		7 47 4	40 18 17	2 25 10 17 5 21		0 12 15 12 20		
29	F	Mercury rises 7h. 13m. A.M.	7 45 4	41 18 1	3 23 11 6 6 4	12	0 40 1 7 13 23 29		
30	S	Martyr. K. Chas, I.	7 44 4	43 17 45	4 25 11 53 6 42	13	1 32 1 54 13 33 30		
31		SEPTUAGES, SUN.	,	45 17 28	5 0- After 7 11		2 15 2 32 13 43 31		
91	2	DEFIUNGES. BUN.	7 45.4	40 17 20	3 2/ Midnight. / 11		5 15 2 05 110 40 51		

JANUARY.

The Moon is full on the 1st. She is in the constellation Gemini, and directing her course towards a point 15° S. of Castor and Pollux, which she passes before rising in the afternoon of the 2nd. On the 2nd and 3rd she is in Cancer, passing her course towards a point 15° S. of Castor and Follux, which she passes passing through a barren space, but directing her course towards Regulus. On the 4th 5th, and 6th, she is in Leo and Sextans: on the 5th, she will rise a little before Regulus, and she is moving towards Spica Virginis. On the 7th, at 5h. r.m., she is on the Equator and moving Southward. From the 7th, to the 10th, she is in Virgo; on the morning of the 10th, she will rise a little before Spica Virginis. On the 11th, and 12th, she is in Libra, her course being towards a point a few degrees N. of Antares, which star she passes about noon on the 13th, so that during the morning of the 14th, she will be E. of that star, being at the time in Ophituchus. On the 15th, she is in Aquila, and crosses the Milky Way; on the 17th, she is in Capricornus, and new, but without an eclipse, as she is then nearly 5° from the line joining the Sun and the Earth. On the 18th, and 19th, she is in Aquarius; on the 20th, at 10th. r.m., she is on the Equator, and moving N.; on the 21st, and 22nd, she is in Pisces; the crescent of the Moon is seen after sunset, in the W. on the 21st, nearly in a line with Beta and Gamma Pegasi, two of the stars forming the square of Pegasus. On the 23d, and 24th, she is in Aries; on the 25th, 26th, and 27th she is in Taurus, being on the 25th, a few degrees S. of the Pleiades, and directing her course between Aldebaran and Jupiter, which she will pass before the evening of the Milky Way; on the 28th, and 29th, she will be in Gemini, on the former day being S.W., and on the latter day S.E. of Castor and Pollux. On the 30th, and 31st, she will be in the barren region of Cancer.

Mercury will be in the constellation of Ophiuchus between January 1st, and 10th; in that of Sagittarius between the 10th, and the 29th; and on the latter day will pass into Capricornus. He is favourably situated for observing before sunrise. On the 1st, he rises at 6h. 18m. A.M., at the S.E. by E. point of the horizon; he is situated in an imaginary line from the Pole Star, through Alpha Herculis, and continued 36° from the latter star; he is also about 13° W. of Antares. On the 16th, he rises at 6h. 57m. A.M. near the S.E. by E.; he is situated in the line joining the Pole Star and Alpha Lyræ, produced to the distance of 62° from the latter star; On the 27th, he is situated in the line joining the Pole Star and Alpha Lyræ, produced to the distance of 31° from the latter star. On the 14th day, before sunrise, he will be about 4° South of the Moon; on the 24th day, at 5h. 35m. A.M. he will be about 4° South of the Moon; Sun. MERCURY will be in the constellation of Ophiuchus between January 1st, and

Sun

Venus will be in the constellation of Sagittarius till the 11th, and in that of Capricorms after that time. On the 1st, she souths at 0h. 21m. p.m., at the altitude of 15°, and sets at 4h. 14m. p.m., near the S.W. by W. point of the horizon. On the last day she souths at 1h. 0m. p.m at the altitude of 23°, and sets at 5h. 42m. near the W.S.W. On the 1st, she is about 33° S.S.W. of Alpha Aquilæ; on the 8th, she is situated in the line joining the Pole Star, and Alpha Aquilæ; on the 8th, she is situated in the latter star; On the 17th, and 18th, she is situated in the line joining the Pole Star, and that remarkable group of stars a little to the E. of Alpha Aquilæ called Delphinus, and at the distance of 35° from them. On the former of those days she is situated about 6° below the moon. On the 27th, she is in a line joining the Pole Star and Beta Aquarii, at the distance of 9° S. of the latter star. She will be an evening star from January 1st, to the middle of September. On the 13th, at 5h. 44m. p.m. she will be at her greatest distance from the Suu.

Maas will be in the constellation Scorpio till the 4th; in that of Ophiuchus VENUS will be in the constellation of Sagittarius till the 11th, and in that of

greatest distance from the Sun.

Mass will be in the constellation Scorpio till the 4th; in that of Ophiuchus between the 4th and the 27th; and in that of Sagittarius after the 27th. He is a morning star. From the 1st to the 11th, he rises at 5h. 4m. A M; on the 16th, at 5h. 2m. A.M., and on the 31st at 4h. 56m. A.M.; at the S.E. by E. point of the horizon throughout the month. On January 1st, he is situated about 9° N.W. of Antares, and about 1° below Beta Scorpii, a star of the 3rd magnitude; he is moving towards Antares till the 8th, on which day he is in an imaginary line joining the Pole Star, and Antares, and about 5° N. of the latter star; on the 24th, he is in the line joining the Pole Star and Alpha Heiculis produced to the distance of 38° S. of the latter star, and at the same time he is about 12° E. of Antares; on the 30th day, he is in the line joining the Pole Star and Alpha Ophiuchi, produced to the distance of 36° from the latter star; and he is 17° E. of Antares. The Moon passes him on the 29th.

JUPITER Will be in the constellation Taurus during the month, and sets at the N.W. by W. point of the horizon; on the first day, at 5h. 46m. A.M., and on the

last day at 3h, 40m. A.M. He souths on the 1st day at 9h, 42m. P.M., and on the last day at 7h, 38m. P.M., at an altitude of 59° throughout the month. He rises a little after noon, and is an evening star, and situated so as to excite much attention. The motion of this Planet among the stars is slightly westward, during the first part of the month, and at the latter part he is nearly stationary among them: during the month he is from 5° to 7° N. of Aldebaran; and from 13° decreasing to 11° East of the Pleiades. The Moon is near him on the 25th, her course being above Aldebaran and below this Planet.

RELATIVE APPEARANCE OF THE PLANETS IN JANUARY.



Scale forty seconds of arc to one inch.

SATURN will be in the constellation of Aquarius all the year. On January 1st, he sets W.S.W. at 8h. 10m. p.m.; and on the last day at 6h. 31m. p.m., mar the W.S.W. point of the horizon. He souths at an altitude of 25° on every day in the month; on the 1st at 3h. 18m. p.m., and on the last day at 1h. 33m. p.m. During the month his motion is slowly eastward among the stars; on the 1st day, he, with Alpha Pegasi and Alpha Aquilæ, form a large triangle, of which the planet occupies the lower angle, he is 30° distance from the former, and 51° from the latter star; during the month the former distance decreases, and the latter increases by about 4°. On the 18th, the Moon is W. of Saturn; before the evening of the 19th she passes him, so that she is E. of him on the 19th.

Uranus will be in the constellation of Cetus till April 9th. He souths on every day in January, at an altitude of 42°, on the 1st at 5h. 56m. p.m., and on the last at 4h. 1m. p.m. He sets midway between the W. and the W. by N. points of the horizon. On the 1st, at 0h. 15m. a.m.; on the 6th, he sets twice on the same day, viz., at 0h. 3m. a.m., and again at 11h. 59m.p.m.; and on the last day, he sets at 10h. 25m. p.m. His motion among the stars is slowly E. till July. He is situated nearly in a line joining Beta and Gamma Pegasi, being 11° S.E. of the latter star. The Moon passes him at 3 o'clock in the morning of the 22md.

POSITION OF THE CONSTELLATIONS RISING ON THE MERIDIAN, AND SETTING ON THE 1st. DAY AT 10tt. P.M. Constellations on the Meridian

Constellations Setting.

Corona Borealis in N. by	A part of Draco	Lyra in N.N.W.
E. :		
The Head of Böotis in N.		The head of Cygnus ln N.
N.E.	30° above N. Horizon	W. by N.
Coma Beriuices in N.E. by	Polaris (The Pole Star)	The hind legs of Vulpecula
E.		in N.W.
The hind legs of Leo in E.	The body of Cameloparda-	The head of Pegasus in W.
by N.	lus between Polaris and	
Sextans	the Zenith	
A part of Hydra in E.S.E.	Auriga 80° above S. Hori-	The preceding fish of Pis-
	zon	ces in W.
A part of Argo Navis in	The head of Taurus 60°	The tail of Cetus in S.W.
SE.	above S. Horizon.	by W.
The hind legs of Canis		

Major S.S.E. On February 1st, at 8h. and on March 1st, at 6h. the Constellations will occupy the same positions.

Days of the Mouth.	Length of Day, or	Hours and	Time of	Time of	JUPITER'S S	SATELLITES.	OCCULTATIO	OCCULTATIONS OF STARS BY THE MOON.					
100	hours he-	Day has in-	Day-break, or beginning	Twinghe	Eclip:	ses of		l		At the dark			
44	tween sun-	creased since	of Twilight.	Ending.	lst Sat.	2nd. Sat	Names of the Stars.	agni-	and re superspee of the	or hright			
	rise and sunset.	the Shortest Day.			Emersion.	Emersion.	Trained of the states	E M	Star.	limb of the Moon.			
	и. м.	II. M.	н. м.	и. м.	D. H. M.	р. н. м,			р н. м.				
1	7 52	0 7	6 Зл.м.	6 5P.M.	2 2 20 A. M. 3 8 49 P. M.	7 11 11 P. M.	Lambda Gemlnorum	5	₹ 2 2 9 A. M.	Bright			
6	7 59	0 14	6 2 ,,	6 11 ,,	10 10 45 г. м.	15 1 48 A. M. 25 5 42 P. M.	Lambaa sommoram	Ű	2 3 17 ,	Dark			
						3rd. Sat.							
11	8 6	0 21	6 1 ,,	6 15 ,,	12 5 14 г. м.	Immersion and Emersion.	Alpha 1 Cancri	6	{ 4 0 33 ,,	Brlght Dark			
16	8 18	0 33	5 58 ,,	6 22 ,,	18 0 40 а. ы.	10 5 28 10 7 54} P. M.	h Virginis	6	{10 1 4 " 1 43 ",	Bright Dark			
21 26 31	8 31 8 47 9 2	0 46 1 2 1 17	5 55 ,, 5 50 ,, 5 45 ,,	6 28 ,, 6 37 ,, 6 43 ,,	19 7 9 P. M. 25 2 36 A. M. 26 9 5 P. M.	17 9 29 17 11 55 P. M.	Delta ² Tauri	4	\begin{cases} 26 & 2 & 14 & \\ 3 & 5 & \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Bright Dark			
-01	3 2	1 17	,, 40 ,,	0 45 ,,	20 9 J P. M.				1				

Constellations Rising.

TIMES OF CHANGES OF THE MOON.	وا					NSIONS A	ND DEC	CLINATIONS OF	THE PLAN	NETS.		
And when she is at her greatest distance (Apo-	문년	MERC	CURY.	VEN	ius.	MA	RS.	JUPITER.	SATU	RN.	URA	NUS.
gee), or at her least distance (Perigee), from the Earth, in each Lunation.	Days o	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion South	Right Ascension	Declina, tion South.	Right Declina tion North	Right Ascension	Declina- tion South	Right Ascension	Declina- tion North.
FULL MOON	6 11 16 21 26	17h. 8m. 17 32 18 0 18 31 19 3 19 36	22 15 23 7 23 35 23 34 23 1	19h. 3m 19 30 19 57 20 23 20 50 21 15	22 49 21 52 20 38 19 9 17 27	16h. 0m. 16 15 16 29 16 44 16 59 17 14	20° 24′ 21 6 21 43 22 16 22 44 23 7	4 24 20 58 4 22 20 56 4 21 20 54	22 3 22 5 22 7 22 9	13° 45′ 13 35 13 24 13 13 13 1 12 49	0h. 39m 0 40 0 40 0 40 0 41 0 41	3° 30′ 3 32 3 34 3 37 3 40 3 44

igular. Distance, measured on the Equator from the first point of Aries, to the declination circle passing through the Star or Planet, expressed in time at the rate of 15 deg. per hour,

January Anníversary.



EXECUTION OF KING CHARLES I.

DEATH OF CHARLES I.

DEATH OF CHARLES I.

This "anniversary" of English history is one of the darkest, the deepest, and most impressive of any age or time; the death of Charles the First has a monumental record in our metropolis and more than a monumental record in the heart of posterity and the memories of reading men. Except those haunting themes of poetry presented in the life and death of Mary Queen of Scots, there are few subjects in English history—isolated, by their peculiar beauty and absorbing interest, from all meaner incidents—more noble in spirit, more touching in remembrance, more forcible in impression, and more absolutely appealing by their character to the imagination and vary soul of the painter, than this of the last moments of the fated Monarch. The associations that crowd themselves into the memory with the characters which form the grouping of the scene—the recollection of events which immediately preceded it in the awful drama of the times—the shadows of a dark history passing in pageantry before the mind, with strange contrasted forms of rebellion and fidelity, of courage and cowardice, of virtue and treachery, of plety and blasphemy, of grace, loveliness, affection, with selfishness, ferocity and ambition: all the bad and good elements of humanity, in short, brought strikingly into play—these thoughts and memories, blending with the full inspiring awe and interest of the scene tself, lend it a pervading fervour and a deepened charm, and invest it with a sublime poetry that wears its intense beauty not more in the grand reality of the breathing pleture, than in the visions and aspirations of the gazer's mind. The subject, too, possesses an universality, for the history of the death of Charles is one familiar to the ear of the world. It was a life-sacrifice extorted by the rage of a people, and given by its intime through and interest page of a people, and given by its countenance was described by the poets and historians of that and after times as wearing a look of resignation most dignified and serene:—

No

No storm is in his human heart,
No strife upon his brow,
Where calmness, like a patient child,
Sits almost smiling now!
Seems the meek Monarch, as like one
Whose gentle spirit sings
Its song of solace to the soul
Before it spreads its wings!
And filling, ere it takes its flight,
His features with a holy light!

Yet that serenest heavenly look
Wears well its taint of earth;
And mortal majesty retains
The impress of its birth!
The lion doth not hang his mane,
The eagle droop his wing;
The lofty glance, the regal mein,
Fall only with the King;
not Charles's ealm, unqualing eye
bames all who thought he feared to die!

These last lines would seem to be derived from a sentence of D'Israeli's, with reference to the undignified assertions, then made by certain traitors, impugning the courage of their Monarch, "These mean spirits," says the eloquent writer "had flattered themselves that he who had been cradled in royality—who had lived years in the fields of honour—and was now, they presumed, a recreant in imprisonment—'the grand delinquent of England,' as they called him—would start in horror at the block. This last triumph, at least, was not reserved for them; it was for the King." The triumph depicted here, however, is lotter that that of mere human exuitation, which both poet and historian imply; it is the high, pure, simple, truth of virtue—mild in the eye, bland upon the brow, gentle in the utterance; it is the triumph of the good spirit pouring forth, to a world in would console rather than rebuke, its parting consciousness of peace: "I go from a corruptible to an incorruptible crown, where no disturbance can have place." These holy words convey the whole strength and meaning of the Monarch's attitude and features. arch's attitude and features.

aren's attitude and features.

The immediate act of the execution has thus been forcibly described:—"Men could discover in the King no indecent haste or flurry of spirits—no trembling of limbs—no disorder of speech—no start of horror. The blow was struck. An universal groan, as it were—a supernatural voice—the like never before heard, broke forth from the dense and countless multitude. All near the scaffold pressed forward to gratify their opposite feelings by some memorial of his blood—the blood of a tyrant or a martyr! The troops immediately dispersed on all sides the mournful or the agitated people."

The following verse from a noem nublished on the subject, in the Times News

The following verse from a poem published on the subject, in the *Times News-*aper, is a sort of paraphrase of Hume's account of the immediate consequences of Charles's execution.

A few brief moments and the martyr dies:
Dies in that sweet serenity of soul!
Then rush quick tears into the nation's eyes,
Over all hearts Grief's sudden waters roll,
And Sorrow raves and sobs without courted!
Now brave men's spirits are how'd down to earth,
Slander is hushed, and vengrance droops her wing,
Slander is hushed, and vengrance droops her wing,
Slander is hushed, and vengrance droops her wing,
And misery flings ber mourning over mirth,
And misery flings her mourning over mirth.
And fame (too late) is loud with the lost Monarch's worth.

JANUARY.

As the words Natural History are generally associated with ideas of flowers, birds, and insects, the subject appears particularly barren in January, when the ground is usually hard with frost, or covered with snow, and scarcely any birds or insects can be seen. Yet even at this dreary and desolate season there is much to interest the lover of nature.

Frost itself presents many curious phenomena. When the temperature of the atmosphere sinks below the freezing point, ponds, and other pieces of still water, have their surface gradually changed into a thin coating of ice, and the aqueous particles on the surface of the earth are congealed and hardened in the same manner. The surface of the water being frozen, imparts its cold to the layer of water beneath, which also freezes, and in its turn freezes a layer beneath it, till in time the ice bcomes thick enough to bear enormous weights. A similar operation goes on in the ground; but as the layers freeze more slowly, the frost seldom pertrates more than six inches deep into the earth in any part of Great Britain; and even in the hardest frosts, the earth below the part which is frozen is as warm as in summer, or about 58°. When frost kills plants It is by freezing their sap, which, of course, expands when frozen, and thus requiring more space than it had before, tears asunder the veins which contained it.

Hoar frost is merely frozen dew. On calm clear nights a great radiation of heat takes place from the surface of the earth, and the earth becoming suddenly chilled, communicates its coldness to those strata of the atmosphere which lie mearest to the ground, and these being laden with vapour, the moisture they con-

nearest to the ground, and these being laden with vapour, the moisture they contain is condensed by the sudden depression of the temperature, and falls in the shape of dew, covering the earth and trees with drops of moisture. In the summer these drops evaporate in the heat of the sun, but in frosty weather they

summer these drops evaporate in the near of the sum put in 1907, become frozen into a covering of crystal.

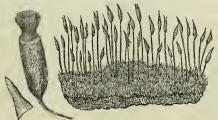
It was formerly believed that the 14th of January was the coldest day in the year; that the sun always shone on the 22nd; and that if St. Paul's day (the 25th) should be fine, the year would be a productive one:—

ne year would oe a productive one;—
If St. Paul's day be fair and cleare,
It doth betide a happy year;
But if hy chance it men should raine,
It will make dear all kinds of graine;
And if the c! uds make dark the skie
Then neate and fowles that year shall die;
If blustering winds do hlow aloft.
Then wars shall trouble the resim full oft.

In busternsy winds do how aloft
Then ware shall trouble the realm full oft.

Snow is produced when the atmospheric temperature falls suddenly below the
freezing point, at a time when the clouds are loaded with molsture. This moisture is congealed as it falls, and if the atmospheric temperature continue below
the freezing point till the frozen particles reach the earth, they take the form of
snow; but should the atmosphere be warmer near the surface of the earth than
it was in the region of the clouds, the frozen particles melt as they descend, and
reach the ground in the shape of sleet. Hail, on the contrary, is formed by the
atmosphere near the surface of the earth being colder than that of the clouds, so
that the aqueous particles, which leave the clouds in the shape of rain, become
frozen into hall before they reach the earth. In this way hail often happens after
rain has fallen violently in very hot weather; for, as heat ascends, the atmosphere
remains excessively hot after the surface of the ground has been cooled by the
rapidly descending rain, and consequently the rain drops are chilled and frozen
as they approach the earth. As a curious illustration of the theory explaining
the formation of snow, Dr. Robertson mentions that one severe winter, a pane of
glass laving been accidentally broken in an assembly-room at St Petersburgh,
the stream of cold air which was admitted instantly congealed the vapour in the
room, which fell in a shower of snow. room, which fell in a shower of snow.

There are very few plants in flower at this season. The holly, the mistletoe, and the ivy will probably have some berries left, and a few golden blossoms may yet be found on the dwarf furze (Ulex minor), but these are only lingering remnants of the former year. The common groundsel and purple dead nettle or red archangel, are, however, generally in flower; and several of the mosses and lichens are in their greatest beauty. One of the latter, which is generally found on old palings, the yellow tremella, is sometimes called St. Gudul-'s lamp, because it first appears about St. Gudule's day (January the 8th), and because its shining, yellow, jelly-like substance, glitters and quivers in the sun like the light of a feeble lamp. The common, or wall screw-moss (Tortula myralls) generally of a feeble lamp. The common, or wall screw-moss (Tortula muralis) generally



SCREW MOSS.

ripens its seeds in this month. This moss, which grows almost everywhere, on old walls and other brickwork, and what at other seasons looks like patches of dark green velvet, if now examined closely, will be found to have springing from its base numerous very slender stems, each of which terminates in a dark brown case, which is, in fact, its fruit. As the fruit ripens, a little cap which covers it, like an extinguisher, rises gradually and is at last thrown off; and when the lid of the fruit, which is also conical, falls off, a curious tuft of twisted hairs appears, forming a kind of fringe, and it is from these twisted hairs that the plant takes its popular name of screw-moss. If a patch of the moss is gathered when in this state, and the green part at the base is put into water, the threads of the fringe will popular name of screw moss. If a patch of the moss is gameted when in this state, and the green part at the base is put into water, the threads of the fringe will uncoil and disentangle themselves in a most curious and beautiful manner, and thus afford an opening to the seeds, which are exceedingly small, and are contained within a thin bag, attached to the central column of the case. It may here be mentioned that all mosses and lichens are more easily detached from the rocks and walls on which they grow in frosty weather than at any other season, and consequently they are best studied in winter. Many of them, also, are in fruit at this season fruit at this season.

fruit at this season.

About the 21st of January (St. Agnes's day), the Christmas rose, or black hellebore comes into flower, and hence the plant was formerly dedicated to St. Agnes, and numerous virtues were assigned to it, in addition to those which it really possesses. The flower of this plant is large and handsome, like a single blush rose; and the root, which is thick and fleshy, looks quite black, when first taken out of the ground; but this dark colour is only in the outer skin, which readily peels off, and leaves a white and succulent substance, which is the part

used in medicine. The bear's foot, or stinking hellebore, also produces its curious purplish flowers about this season:

Its petals green, o'crlapped and closed,
Present each arched converging lip,
Embroidered with a purple tip,
And green its fioral leaves expand,
With fingers like a mermaid's hand.

MANT.

Towards the close of the month the Winter aconite frequently unfolds its bright yellow flowers, placed, as it were, in a salver of green; and about the 27th of January the first snow drop is frequently seen, attended by what is called the Scotch crocus, the flowers of which are white, regularly streaked with very dark

Scotch crocus, the flowers of which are write, regularly streamed with the blackish purple.

The robin redbreast and the common wren are among the few birds that sing in January; but they are said to suspend their music when the frost is very hard and has continued some time. It is at this season that the beautiful red breast of the robin has its most brilliant hue. In spring the red feathers lose their lustre, and the bird having a mottled breast all summer can scarcely be distinguished from the redstart, till its antumnal moult, when it recovers its characteristic feathers. Young redbreasts, hatched in the spring, do not display any scarlet feathers on the breast till after they have moulted in the following autumn.

High is his perch, but humble is his home.
And well conceal'd, sometimes within the sound
Of heartsome millclack, where the spacious door
White-dusted, tells him plenty reigns around;
Close at the root of briar bush, that o'erhauge
The narrow stream, with shealings bedded white,
He fixes his shode and lives at will.
Oft near some single cottage he prefera
To rear his little home; there, pert and apruce,
He shares the refuse of the goodwife's churn,
Nor seldom does he neighbour the low roof
Where tiny elves are taught.

GRADAME,

Starlings are seen in great numbers in the month of January. It is supposed by many naturalists that they stay in Great Britain all the year, and that they only migrate to the south in winter, returning northward in spring. Their food is chiefly insects, but when these cannot be obtained they will eat grain. The flight of the starling is not undulated, and it walks or rans on the ground like the wagtails and the larks, but never hops like the thrush. In severe winters starlings are sometimes found in pigeon-houses, where it is supposed they have ventured to protect themselves from the cold. The golden-crested wren is frequently seen in January. It is the smallest of the British birds. Its weight seldom exceeds eighty grains, and its length is rarely more than three inches. The male has a beautiful orange crest, but the crest of the female is much smaller and less conspicuons. This little bird remains uninjured during the severest weather, and it is said to sing even when the sno wis falling. Its next, which is very small, is composed of green moss, and it is said to have the opening on one side. The eggs are scarcely larger than peas, and they are white, with a tinge of pink. It is a singular fact in the history of this bird that eggs are frequently found that appear to have been laid the previous season, but never set upon. Starlings are seen in great numbers in the month of January. It is supposed spink. It is a singular fact in the history of this bird that eggs are frequently found that appear to have been laid the previous season, but never set upon. Sparrows are found abundantly at this season, as they are at every other; and fieldfares, larks, and redwings, are frequently seen on the banks of rivers searching for insects, which are sometimes found in such places, even upon the snow. Insects are generally torpid in this month. Caterpillars, grubs, and maggots are sometimes found in the pupa state, but they are generally either buried in the ground or hidden in some secluded place, where it is only by chance they can be discovered. The eggs of insects may, however, be found in great abundance, though they are generally so carefully concealed as only to be recognised by a naturalist. The twigs of several kinds of trees will be found to have rings of what look like beads upon them, but which are, in fact, the eggs of the lackey moth glued sso firmly together that they cannot be separated without the aid of a

be separated without the aid of a penknife. The eggs of the gipsy moth are covered with little tufts of down; and those of the va-



EGGS OF THE LACKEY MOTH.

of down; and those of the va-pourer are found ou the outside of the web-like bag which served the female for her cocoon. Snails shut themselves up for the winter by means of what is called an operculum, which is a shell-like substance just large enough to fill the opening of the shell, to which the snail glues it with a strong cement, having previously fixed herself to a wall or tree by a portion of the same clustions substance and in this state she remains without aither are of food eement, having previously fixed herself to a wall or tree by a portion of the same glutinous substance, and in this state she remains without either air or food till recalled to life by the warmth and moisture of spring. In the countries where snails are eaten, they are only used while in this state of hybernation. They are fattened in what are called snail gardens, that is, in broad shallow pits sunk in the ground. In these the snails are kept and fed with fresh leaves, bran, and potatoes, during the summer, and in the winter, when they fix themselves against he walls of the pits, they are collected, packed in casks, and sent to market. It is said that four millions of snails are exported every year from the city of Ulm alone, and yet there are snail gardens in various other parts of Germany. The common garden snail (Helix aspersa) is never eaten, and it is only the large apple snail (Helix Pomatia) which is used as food. This large snail is not common in England, but it is found at Dorking and in some other places. England, but it is found at Dorking and in some other places.



MOOR SNAIL AND MOUNTAIN DULIMUS.

There is a kind of snail There is a kind of snail (Helix virgata), common in Devonshire, at this season, which is so small as to be generally found sticking to the blades of grass, together with a species of Bulimus; and these molluscous animals being eaten by the sheep rishment, and to make the

with the grass, are said to afford a most fattening nourishment, and to make the with the grass, are said to afford a most fattening nourishment, and to make the mutton remarkably sweet. Many persons who are not observers of nature are not aware how many different kinds of snail are to be found, even in Great Britain. In different parts of the world there are two hundred and fifty living species known and described, and sixteen fossil kinds. Some of the foreign living kinds are very beautiful, their shells being spotted with various brilliant colours. Even among the common garden snails some are pink or yellowish, and other scuriously banded. The banded snail (Helix nemoralis) differs from all the other kinds in living principally upon earth worms, or bits of meat. This was discovered accidentally by a little girl, the daughter of an eminent naturalist, who having picked up one of these pretty snails, and tried to feed it with various kinds of leaves without effect, at last gave it a piece of meat from her own dinner, which, to her delight, it ate greedily; by a series of further experiments it was found that this snail is really carnivorous.

FEBRUARY, 1847.



		1		SUN		1	MOON		DURATION OF		HIGH W.		Equa-	of ar.
M D	W D	ANNIVERSARIES, OCCUR- RENCES, FESTIVALS, &c.	RISES.	Sars.	DECLINA	RISES	Sourus.	SETS.	O'Clock, 2h. 4h. 6h.	O'Clock.	AT LONDON	Baings	TIME.	
ъ	ъ	RENCES, FESTIVALS, &c.	1		South	Atternoon	Morning	Morning.	2h. 4h. 6h.	6h, 8h. 10h.	Morning. At	ternoon	Add.	Day the Ye
,	M	Hilary Term ends-Pheasant	н. м 7 41	u. M	Deg. Min.	6 29	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7 39			2 52	0	13 51	20
1		Hilary Term ends—Pheasant & Partridge Shooting ends		4 40	16 51	7 32	$\frac{0.38}{1.21}$	0 4	15	VIIIIIII KIII	111			32
2	lu		7 40	1	16 27	8 34		3	10		II.	3 41 4 12	13 59	33
3	W	St. Blaise	7 38	4 50	16 37		0 44		1/		3 56	4 12	$\begin{array}{ccc} 14 & 0 \\ 14 & 19 \end{array}$	34
4	lH	Aldeharan Souths 7h 30m r.m.	7 30	4 52	16 19	9 36	$\frac{2}{2}$ 46		18	SHIRING THURSTHE	4 25	4 45	14 12	35
5	F	Sir R. Peel b. 1788	7 34	4 54	10 1	10 39	3 28	9 11	19		4 59	4 13	14 17	36
6	S	St. Agatha's Day	7 32	4 56	15 43	11 43	4 11	9 34	20		5 28	5 46	14 21	37
7	S	SEXAGESIMASUN.	7 30	i	15 24	Morning.	4 56	$\begin{bmatrix} 10 & 1 \\ 10 & 21 \end{bmatrix}$.21		6 4	6 21	14 25	38
8	M	Half Quarter	7 29	-	15 5	0 47	5 42	10 31	0		6 40	7 0	14 28	39
9	'fu	Sirius Souths at 9h 20m. P M., 22 deg. high	7 27	5 - 0	14 46	1 51	$6 \ 32$	11 7	23		7 24	7 52	14 30	40
10	W	Q.Victoria m. 1840	7 25	5 2	14 27	253	7 24	11 52	24		8 25	9 4	14 31	41
11	$T_{\rm H}$	The Sun Rises E.S.E. and sets W.S.W.	7 24	5 4		3 53	8 19	Afternoon	25		9 47 1	0 24	14 32	42
12	F	Capella Souths 7h. 36m, гм.	7 22	5 6	13 48	4 46	9 16	1 49	26		11 81	1 48	14 31	43
13	S	Rigel Souths 7h. 34m. P.M.	7 20	5 8	13 28	5 33	10 14	3 1	27			0 22	14 30	44
14	S	QUINQUAGESIMA,	7 18	5 10	13 7	6 15	11 13	4 19	28		0 49	1 16	14 29	45
15	M	SHROVE SUNDAY St.	7 16	5 12	12 47	6 50	Afteruoon	5 42	0		1 41	2 4	14 26	46
16	Tu	Shrove Tuesday	7 14	5 14	12 26	7 23	1 7	7 4	1		2 .27	2 52	14 23	47
17	W	Ash Wednesday	7 12	5 16	12 5	7 52	2 3	8 27	2		3 13	3 36	14 19	48
18	TH	Cambridge Term	7 10	5 18	11 44	8 23	2 58	9 47	3		3 57	4 20	14 14	49
19	F	divides Sun enters Pisces	7 9	5 20	11 23	8 53	3 52	11 3			4 41	5 3	14 9.	50
20	S	α Orionis Souths, 7h. 34m. P.M.	7 7	5 21	11 2	9 26	4 45	Morning.	5		البحاثا	5 47	14 3	51
21	S	QUADRAGESIMA,	7 5	5 23	10 40	10 1	5 39	0 16	6		6 9	6 30	13 56	52
22	M	lat Sunday in Lant	7 3	5 25	10 18	10 43	6 32	1 25	a Villamin		6 56	7 18	13 49	53
23	Tu	Sirius Souths 8h, 27m, P.M.	7 1	5 27	9 57	11 29	7 23	2 25				8 20	13 41	54
2.1	W	St. Matthias	6 59	5 29	9 34		8 14	3 17	S			9 45	13 32	55
25	Тн	Castor Souths at 9h, 4m. P.M.	6 56	5 30	9 12	Afternoon 1 18	$\begin{array}{ccc} 0 & 1 \\ 9 & 3 \end{array}$	4 2	0		10 26 1	1 9	13 23	56
26	F	71 deg. high Procyon Souths at 9h. 6m. P M	6 54	5 32	8 50	2 8	9 50	$\frac{1}{4}$ $\frac{2}{42}$	10		11 49	- 9	10 10	57
27	S	44 deg. high Pollux Souths at 9h. 7m. P.M.,	$\frac{6}{6}$ 52	5 34	8 28	$\frac{1}{3}$ 19	10 35	5 13	11		0 24	50	13 2	58
28	S	2NDSUN.IN LENT		5 36	8 5		11 10	5 41	12		1 13			59
40	S	ZNESUN.IN LENT	0 50	0 00	0 0	1 20	11 19	0 41	12		1 10	1 35	12 31	100

The presence of the Light of the Moon is shown by the Light or dark spaces, referring to each hour of the night. This enables the reader, at one glance, to see what hours are light, and what dark, in any given night, without reference to the actual times of the Moon rising or setting. The quantity of moonlight is known by referring to the column separating the morning from the evening nonrs; the numbers in which show "the Moon's Age."

FEBRUARY.

THE MOON during the night of the 1st and morning of the 2nd, is in the constellation of Sextans. On the 2nd and 3rd she is in Leo; on the 4th, at 1h. A.M., she is on the Equator, and moving S., being in Virgo, and directing her course towards Spica Virginis. During the 4th, 5th, and 6th, she is in Virgo; on the latter day, at 6h. A.M. she is 2° above Spica Virginis. On the 7th and 8th, she is in Libra; on the former day she does not rise at all; on the latter, she rises in the morning 13 minutes before 1, and enters her last quarter at 1h. 36m. r.m. On the 9th and 10th, she is in Ophiuchus; being N.W. of Antarcs on the former and N.E. of it on the latter day, by several degrees. From the 11th to the 13th, she is in Aquila, and in Aquarius on the 14th and 15th. On the 14th, is new Moon at 11h. 26m. in the morning, but without an eclipse, as she is between 4° and 5° from the line joining the Sun and the Earth. From the 16th to the 18th, she is in Pisces; on the 19th, she is in Aries, and her crescent is seen soon after Sunset, in W. by N., directing her course towards Aldcharan, at some distance from her. On the 20th, she is in Aries. From the 21st to the 23rd she is in Taurus. On the 21st, she souths, at 5b. 39m. in the evening, the Pleiades being seen a few degrees above her; before the evening of the 22nd, she will have passed Aldebaran, and she will be a few degrees E. of that star, and moving from it. On the 23rd, she will cross the Milky Way. On the 24th and 25th she is in Gemini; on the latter day, at 9h. in the evening, Castor is seen about 16° above her, and she is moving so as to be under Pollux. On the 26th and 27th she is in Cancer, and on the 28th day she is in Leo—during the last three days she passes through a barren space in the heavens.

MERCHYL—Between the 1st and the 14th, will be in the constellation of Capricornus; from the 14th to the 25th, he will be in that of Aquarius; on the 25th, he passes into Pisces.

On the 1st, he rises at 7h. 29m. A.M., near the S E. by E.; being only 12 minutes an THE Moon during the night of the 1st and morning of the 2nd, is in the con-

Capricornus; from the 14th to the 25th, he will be in that of Aquarius; on the 25th, he passes into Pisces.

On the 1st, he rises at 7h. 29m. A.M., near the S E. by E.; being only 12 minutes before the Sun rises; on the the 7th, the Sun rises before him, and on the 10th, they pass the Meridian together, so that during the whole of the month he is under unfavourable circumstances for observation.

10th, they pass the Meridian together, so that during the whole of the month he is under unfavourable circumstances for observation.

Venus.—On the 1st, passes from the constellation Capricornus into that of Aguarius, and from the latter to that of Pisces on the 18th. On the 1st, she souths at 1h. 1m. p.m., at the altitude of 23°, and sets at 5b. 45m. p.m., near W.S.W.; on the 15th, she souths at 1h. 12m. p.m., at the altitude of 30°, and sets at 6h. 32m. p.m. near W. by S., and on the last day she souths at 1h. 21m. p.m., at the altitude of 36°, and sets at 7h. 14m. p.m., near W. by S.

On the 3rd, she is situated in a line joining the Pole Star, and Alpha Aquarii, produced to 13° from the latter star; and she is 5° W. of Saturn, towards which she is moving; and on the 7th, during the evening, both Venus and Saturr will be so near together as to be visible in the field of the telescope at the same time; Venus preceding Saturn by 1½ minute; and distant from him by only 1-6th of a degree, being below him by this small quantity; at 1h. on the following morning the two Planets will be within one minute of a degree of arc of each other, and after this time they will separate. Venus passing E. of Saturn, and above him; on the 8th, Venus will be about 2° E. and she is more and more East of him day by day. On the 16th, she will be about 6° S. of the Moon, and situated in the line joining the Pole Star; Beta Pegasi and Alpha Pegasi (the two latter stars forming the sestern side of the square of Pegasus) and about 23° south of Alpha Pegasi or the lower of these two stars; she will then move more east day by day, till towards the end of the month, she is in a line joining the Pole Star, and the stars of the square of Pegasus viz. Alpha Andromedia and till towards the end of the month, she is in a line joining the Pole Star, and the eastern pair of stars forming the square of Pegasus, viz., Alpha Andromedæ and Gamma Pegasi, being about 30° S. of Alpha Andromedæ, the upper star, and about 16° S. of the lower one.

16° S. of the lower one.

Mass will be in the constellation of Sagittarius all the montb. He will rise nearly midway between S.E. by E., and the S.E. points of the horizon; on the 1st day at 4h. 55m.; on the 1st day at 4h. 55m.; on the 1st day, at 4h. 45m. A.M. He souths at 8h. 48m. A.M. on the 1st day; at 8b. 25m. A.M. on the last day; at an altitude of 15° throughout the month.

On February 1st, he is about 18° east of Antares, and moving eastward from this star; on the 20th and 21st days he is in a line drawn from the Pole Star through Alpha Lyre; and he is 34° E. of Antares, and distant from Alpha Aquilæ by 36°. On the 23rd and 24th days he is near to a cluster of stars in Sagittarius.

through Alpha Lyræ; and he is 34° E. of Antares, and distant from Alpha Aquilæ by 36°. On the 23rd and 24th days he is near to a cluster of stars in Sagittarius.

Jurrræ will be in the constellation of Taurus throughout this month. He sets at the N.W. by W. point of the horizon, on the 1st day, at 3b. 37m. A.M.: on the last day at 1h. 58m. A.M. He souths at an altitude of 59° on the 1st day, at 7h. 34m p M; and on the last day at 5h. 53m. p.M. He is nearly stationary among the stars during the 1st half, and he moves slowly to the eastward during the 2nd half of the month. His relative position with respect to Aldebaran and the Pleiades is the same as in the last month, but in the contrary order, the Planet being in nearly the same position at the end of February as he was at the beginning of January.

ginning of January.

Satuan sets about 3° N. of the W.S.W. throughout the month. On the 1st day at 6h. 28m. p.M., being about 1b. 42m. after the Sun has set. The amount of

this difference decreases day by day, till on the 21st, the Planets and the Sun set together at 5h. 24m.; after this time the Sun rises before and sets after the Planet, till towards the end of the month they nearly rise together.

His motion among the stars is slowly eastward: during the first part of the month he is 25° distant from Alpha Pegasi, and 55° from Alpha Aquilæ. The month is a had one for observing him.

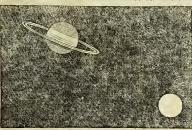
month he is 25° distant from Alpha Pegasi, and 55° from Alpha Aquitæ. The month is a bad one for observing him.

On the 19th day, at 2h. 17m. p.m., he is N. of Mcreury by only one-third of a degree, but the Sun sets so few minutes before the Planets that the two objects are unfavourably situated for observation.

Uranus souths at an altitude of 42°, on the 15th day, at 3h. 4m. p.m. and he sets nearly at the same point of the horizon as in January, on the 1st day at 10h. 21m. p.m., and on the last day at 8h. 40. p.m.

MERCURY ON THE 16TH. APPEARANCE OF SATURN AND VENUS ON FEB. 7TH.





The scale on which the Planets are drawn, is 40 seconds to an inch. THE SOUTHING, &c, OF THE PRINCIPAL FIXED STARS, WHICH PASS THE MERIDIAN BEFORE MIDNIGHT. TIMES OF

Star's Names.	Time of southing during the evening of the lst. day.		ahove the	Number of hours Point of the				
Alpha Arietis	3	n. 5	м, 13	61°s	ır.	N. W. ber W.		
Aipha Arieus	0	9	13	01-8	81/4	N.W. by W.		
Alpha Ceti	2	6	9	42s	61/4	Between W.		
Alpha Persei	2	6	28	88s	Never Sets			
Aldebaran	1	7	42	55s	71	W.N.W.		
Capella	1	8	20	84s	Never Sets			
Rigel	1	8	22	30s	51/4	Near W. by S.		
Beta Tauri	2	8	31	67s	83	Near N.W.		
Alpha Orionis	1	9.	0	46s	$6\frac{1}{2}$	W. by N.		
Sirius	1	9	52	22s	41/2	Near W.S.W.		
Castor	3	10	38	718	9	Near N.W.		
Procyon	1	10	45	448	61/2	Near W. by N.		
Pollux	2	10	50	67s		Near N.W.		

POSITION OF THE CONSTELLATIONS RISING, ON THE MERIDIAN, AND SETTING ON THE 1st. DAY AT 10H. P.M.

Constellations Rising.	Constellations on the Meridian	Constellations Setting.
	The body of Draco from	
by E. to N.N.E.		way between N. by W.
	N. horizon	and N.N.W.
Corona Borealis in N.E.	Polaris	The hoofs of Pegasus near
	The head of Cameloparda-	N.N.W.
E.N.E.	lus, between Polaris and	
	the Zenith	
The shoulders of Virgo in	The head and neck of the	The N. wing of Pegasus
E. by N.	Lynx near the Zenith	
	Gemini, 75° above S. hori-	The body of Cetus, W.S.W.
	zon	Columba, S. by W.
The Crater E.S.E.	Neck and chest of Mono-	
	ceros, 38° above S. hori-	
	zon	
	Canis Major, 25° above S.	
	horizon	

The constellations occupy the same positions on January 1st at midnight, and on March 1d, at 8h. P.M.

Days of the Month.	Length of Day, or number of hours he-	Number of hours and minutes the	Time of Day-hreak, or beginning	Time of Twilight		SATELLITES,	OCCULTATIONS OF STARS BY THE MOON.						
the J			of Twilight.	ending.	lst, Sat. Emersion.	2nd. Sat. Emersion.	Names of the Stars.	Magni- tude.	Times of disappearance and re-appearance of the Star.	At the dark or bright limb of the Moon.			
1 6 11 16 21 26 28	9 6 9 24 9 40 10 0 10 18 10 38 10 46	н. м. 1 21 1 39 1 55 2 15 2 33 2 53 3 1	н. м. 5 43а.м 5 37 ,, 5 29 ,, 5 20 ,, 5 11 ,, 5 1 ,, 4 56 ,,	H. M. 6 45PM 6 51 ", 6 69 ", 7 8 ", 7 17 ", 7 25 ", 7 10 ",	18 9 21 P. M. 25 11 17 P. M.	D. H. M. 1 8 18 P. M. 8 10 54 P. M. 16 1 30 A. M. 3rd. Sat.	u Geminorum k Geminorum	5	D. H. M. 24 9 46 P. M. 10 46 P. M. 25 9 39 P. M. 10 51 P. M.	Dark Brigbt Dark Bright			

February 1d. after 8th. P.M. the four Satellites of Jupiter are E., and they are W. of the Planet on the 21st. day at 8b. P.M. and for some time afterwards

To the second se			77.7.7.7				ist. day a				anciwai	uo.
TIMES OF CHANGES OF THE MOON,	a		RIGH	T ASCEN	ISIONS A	ND DEC	LINATIO	ONS OF '	THE PLA	NETS.		
1	등년 <u>ME</u>	CURY.	VEI	NUS.		RS.	JUPI			URN.	URA	NUS.
(Apogee), or at her least distance (Peri-	Right	Declina-	Right	Declina-	Right	Declina-	Right	Declina.	Right	Declina.	Right	Declina-
gee), from the Earth in each Lunation.	Ascensio	South.	Ascension	South.	Ascension	South.	Ascension	North.	Ascension	South,	Ascension	North.
LAST QUARTER . 8D. 1. 39M. P.M. NEW MOON . 15 11 26 A.M. FIRST QUARTER . 22 3 59 A.M.	1 20h.16r 6 20 51 11 21 25	19 47	21h.45m 22 9 22 33	13 0	17h.32m 17 48	23 39	4 20	20 55	22h.14m. 22 16	12 29	0 43	3 53
APOOEE	16 22 0 21 22 35	14 19		10 44 8 20 5 52	18 3 18 18 18 34	23 45 23 46 23 40	4 20 4 21 4 22	20 58 21 1 21 5	22 18 22 20 22 23	12 9 11 56	0 43 0 44	3 58 4 3
	26 23 10		23 42	3 19	18 49	23 40	4 22	21 10	$\begin{array}{cccc} 22 & 23 \\ 22 & 25 \end{array}$	11 43	0 45	4 8

February Anniversary.



ESCAPE OF MARY QUEEN OF SCOTS FROM LOCHLEVEN CASTLE.

DEATH OF MARY QUEEN OF SCOTS.

FEBRUARY 8, 1587, Mary was beheaded for alleged conspiracy, in Fotheringay Castle, in the 45th year of her age.

Every phase in the life of this ill-fated sovereign is regarded with interest, and her entire career would seem to belong to the romance of history. Neither of its strange events, however, surpasses the escape of the imprisoned Queen from the Castle of Lochleven, an ancient fortress situate on a small island at the northwest end of the lake, in Kinross-shire, Scotland. It was once the property of the Douglases of Lochleven, but is now a heap of ruins. Thence Mary escaped on the 2nd of May, 1568.

Douglases of Lochleven, but is now a heap of ruins. Thence hary escaped on the 2nd of May, 1568.

It appears that the marriage of Queen Mary with Bothwell raised the public indignation to such a pitch, that the nobles rose against them, and they fled before an armed and indignant people from fortress to fortress. A blength, after they had collected some followers, a pitched battle near Carbery Hill was about to ensue, when Mary abandoned Bothwell, and threw herself on the mercy of her subjects. They conducted her first to Edinburgh, where, as she still persisted in regarding Bothwell as her husbund, the nobles resolved that she should be confined during her life in the fortress of Lochleven. She was in a paroxysm of distress when Lords Ruthven and Lindsey arrived at the Palace of Holyrood to inform her that they were commanded to put in execution the order for her commitment. They charged her women to take from her all her ornaments and royal attire; and, being clothed in a mean dress, she was conveyed to the prison appointed for her. The Lords Seton, Yester, and Borthwick endeavoured to rescue her, but failed in the attempt. She was delivered over to William Douglas, the Governor of the Castle of Lochleven, who was nearly related to the Regent Morton. Here, however, Mary continued a prisoner less than twelve months, when she effected her escape by the aid of the Governor's brother, George Douglas, who had become enamoured of her. On May 2, in the year above named, when her keeper was at supper with his family, George Douglas having possessed himself of the keys of the Castle, hastened to the Queen's apartment, and conducted her out of prison. Having locked the Gastle gates, they entered a boat which awaited them, and being rowed across the lake, the Lord Seton received the Queen with a chosen band of horsemen in complete armour. That night he conveyed her to his house of Niddrie, in West Lothian; having rested there a few hours, she set out for Hamilton, and was soon at the head of a gallant army.

Mary Stuart, famous for her beauty, her wit, her learning, and her misfortunes, was daughter of James V. King of Scotland, and succeeded her father in 1542, eight days after her birth. In 1558 she married François, dauphin, and afterwards king of France, by which means she became Queen of France. This monarch dying in 1560, she returned into Scotland, and married her cousin, Henry Stuart, Lord Darnley, in 1565. Being excluded from any share of the Government (as he suspected) by the advice of Rizzio, an Italian musician, her favourite and secretary, the King, by the counsel and assistance of some of the principal nobility, suddenly surprised them together, and Rizzio was slain, in the Queen's presence, in 1566. An apparent reconciliation afterwards took place, when Darnley, who had continued to reside separately from the Queen, was assassinated, and the house he had inhabited was blown up with gunpowder, in February, 1567. This barbarous transaction was but very imperfectly investigated; and in the month of May following, she wedded the Earlo Bothwell, who was openly accused as the murderer of the late King. Scotland soon became a scene of confusion and civil discord. Bothwell, took refuge in Denmark; and Mary, made a captive, was treated with insult and contempt. After some months' confinement she effected her escape, and, assisted by the few friends who still remained attached to her, made an effort for the recovery of her power. She was opposed by the Earl of Murray, the natural son of James V., who had obtained the Regency in the minority of her son. The battle of Langside ensured the triumph of her enemies; and, to avoid again falling into their power, she fled to England, and sought the protection of Queen Elizabeth; but that Princess treated her as a personal and political rival, and kept her in safe custody for a period of eighteen years. And during the whole of that long term she was considered as the head of the Popish party, who wished to see a Princess of their persuasion on the throne of England. M

FEBRUARY.

FERRUARY is generally considered the first month of the spring. As the snow melts gradually away, snowdrops appear abundantly, and hence this delicate little flower was formerly called the fair maid of February. It was also called our lady of February, as it was generally in flower on the 2nd of the month, the festival of the Purification of the Virgin, or Candlemas Day. This day, in many parts of Great Britain, particularly in Scotland, is supposed to have great effect upon the weather.

If Candlemas Day be fair and bright

If Candlemas Day be fair and bright, Winter will bave another flight; But if Candlemas Day be clouds and rain, Winter is gone, and won't come again.

Winter is gone, and won't come again.

Towards the middle of Febrnary the cloth-of-gold crocus appears, with its petals of a deep golden yellow, which are striped with very dark reddish brown on the outside. The bulb, or rather corm, of this species is very large, and covered with strongly-marked network. The leaves of varions bulbous plants now begin to appear above the ground, and the pink hepatica and the mezereon are generally in flower. Both flowers are worth remarking; the bepatica because its flowers are of as dark and rich a colour in the bud as they are when they are fully expanded; and the mezereon because the petals of its flowers are each furnished with a lining, which may be carefully peeled off, and which, when separated, looks as if two flowers had been glued together. The flowers of the latter plant appear clustered together on the naked part of the branches, while the leaves, when they unfold, are produced in turfs at their points. The bark of the mezereon is extremely tongh, and the inner bark is capable of being distended, so as to form a kind of lace. The curious lace-bark tree of Jamaica is nearly allied to the mezereon, but its bark is still more beautiful, and is, indeed, so ine, that ruffles, a frill, and a cravat were cut from it and worn by Charles II. so as to folin A shift of Lace. The Chitots lake-alak ties of valuating is flearly allied to the mezereon, but its bark is still more beautiful, and is, indeed, so fine, that ruffles, a frill, and a cravat were cut from it and worn by Charles II. The catkins of the hazel generally appear in this month, though the female flowers, which are of a bright crimson, are seldom seen before March. The buds of the different kinds of trees begin to swell at this season, and it is curious to mark how diversified they are in appearance; some being short and thick, like those of the horse-chestnut and the lilac; and others long and tapering, like those of the Euonymus, or spindle tree. On the 22nd of the month St. Margaret's Day), the daisy is generally in flower, and hence the plant was formerly called Herb Margaret. It is still called La Marguerite in France, though it is also sometimes called La Paquerette in that country, from its being most abundant about Easter, the French word for which is paques. The name of daisy is said to have been, originally, day's eye. The green hellebore, which dies down to the ground in winter, springs up again in February, and flowers almost as soon as it appears above ground. The creeping crowfoot is often in flower at this season. In ancient times, the holly and mistletoe used to deck the houses at Christmas, were suffered to remain till the 1st of February, when they were removed, and their place supplied with box. plied with box.

piled with box.

The curious cupped moss, called the Jew's-ear, is very abundant about this period. Though it is called a moss, it is, in fact, a kind of fungus which grows on old wood, generally the trunks of elder trees, which are partially decayed. There are two kinds, one of which is of a reddish brown, and the other a dingy black. The crab's-eye lichen (Lecanora parella) is found at this season on exposed rocks and stones, and sometimes on walls and stones by the sea-side. The thallus, or leafy part, is of a dirty white, and forms conspicuous roundish patches, closely adhering to the stones on which they grow. It is used for dyeing crimson or purple in the south of France. Cudbear (L. tartarea), is another crustaceous lichen, very similar to the last in form, but differing both in size and colour, being larger, and of a brownish hue. In the Highlands of Scotland, many peasants earn fourteen shillings per week by scraping this lichen off the rocks with an iron hoop, and sending it to the Glasgow market, where it is used for dyeing wool purple. The scale mosses (Jungernannie), and the hair moss (Polytrichum) are both in fructification about this period. One of the commonest kinds of scale mosses (Jungernannie) is found in

(Jungermannia bidentata) is found in fru ctification at this season: it grows in patches, in moist shady situations,



SCALE MOSS.

scale moss.

near the roots of trees, and among moss upon commons, and on hedge banks. The seed vessels are little oval bodies, which, if gathered when unexpanded, and brought into a warm room, burst under the eye with violence the moment a drop of water is applied to them, the valves of the vessel taking the shape of a cross, and the seeds distending in a cloud of brown dust. If this dust be examined in a microscope, a number of curious little chains, looking something like the spring of a watch, will be found among it, their use being to scatter the seeds; and if the seed-vessel be examined in a microscope while in the act of bursting, these little springs will be found twisting and writhing about like a nest of serpents. The undulated hair moss (Polytrichum undulatum) is found on moist shady banks, and in woods and thickets. The szed-vessel has a curious shaggy cap, but in its construction it is very similar to that of the screw moss. shaggy cap, but in its construction it is very similar to that of the screw moss, except that the fringe round its opening is nost twisted. There are also several except that the fringe round its opening is nost twisted. There are also several kind of tremella found on partially decayed wood at this sesson; and several curious fungi, which appear sometimes in patches of white or yellowish matter, and sometimes of a brilliant blue or purple. The curious plant called the ground Spherocarpus is only found at this season growing on the ground in clover and growing on the ground in clover and turnip fields, generally in Norfolk and Suffolk. It consists of a number of pear-

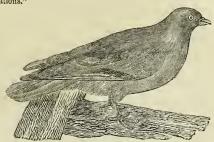


UNDULATED HAIR MOSS.

sbaped substances, growing in clusters on a very thin membranous leaf. The whole plant is of a bright yellowish green; and, when the pear-like bodies are opened, a round ball is found at the base of each.

Many birds pair in February; but the carliest are generally the rooks, which sometimes begin to build on Candlemas Day (Feb. 2nd). The ravens are nearly as early; and White of Selborne relates an interesting ancedote of a female raven, which happened in this month. "In the centre of a grove near Selborne, there stood an oak, which, though shapely and tall on the whole, bulged out into a large excrescence about the middle of the stem. On this a pair of ravens bad fixed their residence for such a series of years, that the oak was distinguished by the title of the Raven Tree. Many were the attempts of the neighbouring youths to get at this eyrie: the difficulty whetted their inclinations, and each was ambitious of surmounting the ardouns task. But when they arrived at the swelling, it jutted out so in their way, and was so far beyond their grasp, that the most daring lads were awed, and acknowledged the undertaking to be ton hazardous. So the ravens built on, nest upon nest, in perfect security, till the fatal day arrived in which the wood was to be levelled. The saw was applied to the butt, the wedges were inserted into the opening, the woods echoed to the heavy blows of the beetle or mallet, the tree nodded to its fall; but still the dam sat on. At last, when it gave way, the bird was flung from her nest; and, though her parental affection deserved a better fate, was whipped down by the twies, which brought ber dead to the ground."

The blue titmouse, or tomiti, may be seen busily at work in the month of February pecking off the trees all those buds which are infested with insects, as the bird is one of those which require animal food; and, in severe frosts, it may often be seen in February pecking insects out of the lichens, with which the branches are covered. Blackbirds frequently begin to build in this mon and most early gooseberries; and the bright red breasts of four or five cock birds, quietly feeding on the leafless bush, are a very pretty sight, but the consequences are ruinous to the crop. When the cherry buds begin to come forward, the bull-finch quits the gooseberry bushes, and makes tremendous havoc with the cherry trees. The Orleans and green-gage plums form the next treat, and draw to bullfinch's attention from what remains of the cherry. Having banquetted here awhile, it leaves our gardens entirely, resorting to the fields and hedges, where the sloe bush in April furnishes it with food. May brings other dainties and other avocations."

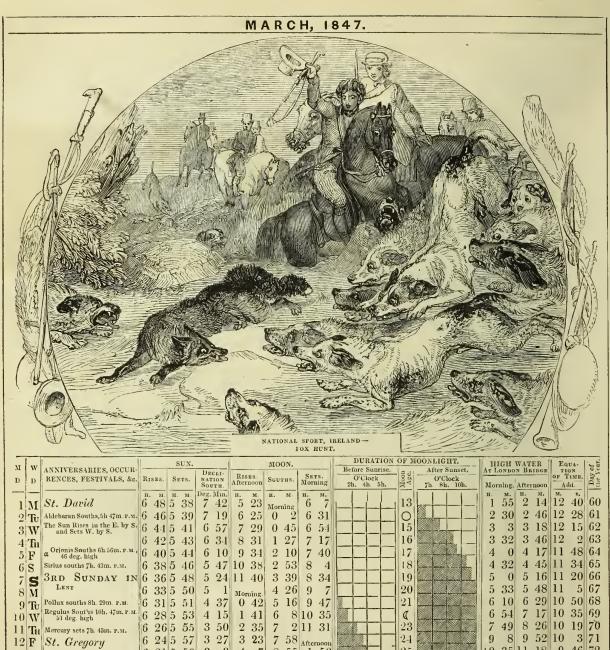


THE WOOD PIGEON.

Wood pigcons are frequently seen towards the close of this month. The wood pigcon is indigenous to this country, and it is doubtful whether it migrates farther than from the northern to the southern parts. These birds assemble in large flocks in winter; and they resort to the woods, in order to roost in the highesttrees, preferring those of the ash. They begin to pair generally in the month of February, "at which time the male birds are seen flying in a singular manner, alternately rising and falling in the air." The nest of the wood pigeon is formed of a few small sticks, so loosely put together, that the eggs may frequently be seen through them. The female lays only two, and they are white and oval; but larger than those of the common pigeon. Both the male and female birds assist in making the nest; and the male sometimes relieves the female in sitting. The nest is frequently built in pine or fir trees; but it is also found in hedges, or in large hawthorn bushes. The most common situation is, however, in ivy, or in large hawthorn bushes.

female in sitting. The nest is frequently built in pine of in trees; but it is also found in hedges, or in large hawthorn bushes. The most common situation is, however, in ivy, or in the fork of a large tree.

Various kinds of caterpillars are found in the month of February; as, by a curious and beautiful provision of nature, insects come into existence just at the moment when the leaves of plants unfold so as to afford them food. Butterflies, that appear to have found some place of shelter all the winter, often appear on a warm day in February, fluttering about, and laying their eggs on the leaves of the plants destined to afford food to their caterpillars, before the leaves themselves are quite expanded; and in this way the eggs of the nettle, peacock, and painted lady butterflies, and sometimes even these of the tiger moth, are found on the young leaves of the nettle when the plants are only a few inches high. A few of the common flies sometimes appear at the end of this month; and the bat begins to fly. The woodlouse (*iniscus usellus*) often makes its appearance towards the close of this month. This creature belongs to the Crustaceæ, and it posseses the same power of curling up its body as the lobster does its tail. Woodlice always frequent dark and retired places; they are generally found under stones, or old logs of wood; and if a flower-pot chances to be turned down it is sure to be soon filled with woodlice. The food of these creatures consists of decayed vegetable and animal substances, and they are very fond of burying themselves in fruit somewhat over ripe. They generally crawl about at night, and are rarely seen in the day-time excepting in wet weather; and they coil themselves up when in danger. The young, when first hatched, are nearly white, and have only twelve feet; though, when the creature is full grown, it is brown, and has fourteen feet.



м	W	ANNIVERSARIES, OCCUR-	-	T	_	DECLI-	Rises.	[1	SETS.	Before Sunrise.	e a	After Sunset,	At LONDON BRID	OF TIME,	200
D	D	RENCES, FESTIVALS, &c.	Ris	ES.	SETS.	NATION SOUTH.	Afternoon	Souths.	Morning	O'Clock 2h, 4h. 5h.	Moon Age.	O'Clock 7h 8h, 10h,	Morning, Afterno		Day the
-	-		fi.	М.	н. м.	Deg. Min.	н. м.	H. M.	н. м.				н. м. н.	M. B.	
1	M	St. David	6	48	5 38	7 42	5 23	Morning	6 7		13	70	1 55 2 1	4 12 40	60
2	Tu	Aldebaran Souths, 5h 47m. P.M.	6 .	46 3	5 39	7 19	6 25		6 31		0		2 30 2 4	6 12 28	61
3	3	The Sun Rises in the E. by S. and Sets W. hy S.	6	44 !	5 41	6 57	7 29	0 45	6 54		15		3 3 3 1	8 12 15	62
	Tin	and sets w. ny s.	6	42 8	5 43	6 34	8 31	1 27	7 17		16		3 32 3 4	6 12 2	63
4		a Orionis Souths 6h.56m. P.M.,	0		5 44	6 10	9 34	2 10	7 40		17		4 0 4 1	7 11 48	64
6	FS	46 deg. high Sirius souths 7h. 43m. p.m.	1		5 46	5 47	10 38	$\frac{1}{2}$ 53	8 4		18		4 32 4 4	5 11 34	65
-			1	00	5 48	5 24	11 40	3 39	8 34		19		5 0 5 1	6 11 20	66
6	S	LENT CONDAI			5 50	5 1	-	4 26			20			8 11 5	67
8	100	Pollux souths 8h. 29m. r.m.	B .		5 51	4 37	Morning 0 42				21			29 10 50	68
	lu	Regulus Souths 10h, 47m, F.M.	-					1 -	- /	 			6 54 7 1	7 10 35	69
1 (1 ''	51 deg. high		- 1	5 53	4 15	1 41	$\begin{vmatrix} 6 & 8 \\ 7 & 6 \end{vmatrix}$	1-0-1		0			26 10 19	70
11		Mercury sets 7h. 43m. P.M.	6		5 55	3 50	2 35			V/////	23			0 10 0	71
12	-	St. Gregory	6		5 57	3 27	3 23	1 -	TITLES IN THE		24				70
13	SS	Venus sets 7h. 54m. P.M.	6	1	5 59	3 3	4 7	8 55		William -	25		1.0 00	8 9 46	72
1-	S	4TH SUNDAY IN	6	18		2 40	4 44	951	3 9		26		11 55	9 30	73
15	M	LENT	6		6 2	2 16	5 17	10 48	L.		27			9 13	74
16	Tu	Mars rises 4h, 10m, A.M.	6	13		1 52	5 48	11 44	5 53		•			8 56	75
17	$\sqrt{\mathbf{w}}$	St. Patrick	6	11	6 6	1 28	6 18	Afternoon	, 7 15		1		-	8 8 38	76
18	TH	Mercury sets at 7h. 54m. P.M., 3 deg. N. of W. hy N.	6	9	6 8	1 5	6 49	1 36	8 37		2			3 8 21	77
19	F	D degrate or the system	6	7	6 - 9	0 41	7 22	$2 \ 2 \ 32$	9 54		3		3 35 3 5	7 8 3	78
20	S	The Sun riscs nearly E. and	6	5	6 11	0 17	7 58	3 28	3 11 7		4			0 7 45	79
2	S	5TH SUNDAY IN	6	3	6 12	North	8 38	3 4 23	Morning		5			20 7 27	80
29		LENT-St. Benedict-Ver- nal Equinox-Spring com.	6	1	6 14	0 30	9 24	5 17	0 13		6		5 45 6	6 7 9	81
2:	1	Sirius Souths 6h. 35m. P M.,	5	59	6 15	0 54	10 10	6 9	1 10		D			5 6 51	82
2.	W	Sun in Aries	5	57	6 17	1 17	11 11	6 59	9 2 0		8		7 20 7 5	60 6 32	83
2	Ti	Annunciation	5	54	6 18	1 41	Afternoo	7 47	2 41		9		8 29 9 1	0 6 14	84
20		Camb. Term ends	5	52	6 20	2 4	1 11	8 33	3 3 15		10		9 53 10 3	5 55 5 5	85
2	7 8	Oxford Term ends	11 11	50	6 22	2 28	2 14	9 18	3 45		11		11 15 11 4	8 5 37	86
28		PALM SUNDAY-	5	47	$\frac{1}{6}$ 24	2 51	3 14	1 10 1	4 12		12		0 2	22 5 18	87
29	-	1st Day in Passion Weck	1	45	$\frac{1}{6}$ $\frac{1}{26}$		4 12	10 43			13		0 45 1	7 4 59	88
30		Castor souths at 6h 54m. P.M.	112		$\frac{1}{6}$ 28	3 38	5 19	11 25			14		1 27 1 4	4 41	89
3		Procyon Souths 6h 57m. P.M.,	5	41			6 29	After	5 20	10000	0		1 59 2 1	5 4 22	90
10	1 44	44 deg. high	U	**	0 00	1 1		Midnight	1 0,20	1 1 1 2//			150		
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MARCH.

Suu and Earth is less than a degree, and a visible eclipse of the Moon takes place. (See the month of April in the Almanack of last year).

The Eclipse begins at twenty-three minutes after eight in the evening. The middle is at twenty-seven minutes after nine, and the end is at half-past ten. At London about one-third of the Sun's diameter is eclipsed.

MERCURY will be in the constellation Pisces during the whole of this month.

MERCURY Will be in the constellation Pisces during the whole of this month.

He souths at 0h. 55m. P.M., at the altitude of 34°, and sets at 6h. 40m.

P.M., midway between the W. and W. by S. points of the horizon; on the 16th, he souths at 1h. 11m. P.M. at the altitude of 46°; and he sets at 7h. 54m. P.M., near W. by N., being 1h. 50m. after the Sun has set; after the 16th, the Planet sets earlier, and the Sun later, and therefore, between the dsys of the 6th and the 20th, the time is very favourable for observing him. On the 21st, he souths at 0h. 58m. P.M., and sets at 7h. 48m. P.M. On the 26th, he souths at 0h. 32m. P.M., and sets at 7h. 22m. P.M. in the W. by N. On the 31st, the Sun and the Planet south at the same time. On the 6th, the Planet is in a line joining Alpha Andromedæ and Gamma Pegasi (the two eastern stars in the square of Pegasus) produced to 14° south of the latter star; on the 13th he is in a line joining Beta and Gamma Pegasi, produced and distant 12° from the latter; on the 20th he is 13° E.S E. of Gamma Pegasi.

VENUS. on the 5th, will pass from the constellation Pisces into that of Cebus:

on the 20th he is 13° E.S. E. of Gamma Pegasi.

Venus, on the 5th, will pass from the censtellation Pisces into that of Cetus; and from the latter into Aries, on the 27th.

On the 1st she souths at 1h. 21m. p.m. at the altitude of 37°; and sets at 7h. 17m. p.m near the W. point of the horizon. On the 15th, she souths at 1h. 29m. p.m., at the altitude of 44°; and sets at 8h. 1m. p.m., W. by N. On the last day she souths at 1h. 39m. p.m. at the altitude of 52°; and sets at 8h. 53m, p.m. in the W.N.W.

On the 1st, she will be situated nearly as described at the last day of February, and after this time she will be moving towards Alpha Arietis; on the 15th she, with Gamma Pegasi and Alpha Arietis, form a triangle, being at the distance of 22° from both stars, and below the line joining them. On the 28th, she is situated in a line joining the Pole Star, and Alpha Arietis, and at the distance of 11° south of the latter star.

On the 12th and 13th, she is very near Ursnus; during the evening of the former day she will precede him by 2 minutes, and is nearly ½ a degree S. of him. During the evening of the 13th, she follows Uranus by 2 minutes, and both will appear in the field of view of the telescope at the same time, providing the magnifying power of the telescope is not great. Venus is exactly E. of Uranus, and, therefore, both objects will pass over the same part of the field, Uranus preceding Venus by two minutes. To those persons who have not seen Uranus, this will be a good opportunity of so doing, as it is seldom so good a guide can be given for finding him. On the 12th and 13th, she is very near Ursnus; during the evening of the

MARS will be in the constellation of Sagittarius before the 21st, and in that of MARS WIII DO IN the Consensation of Sagittatias Science and 2135, and in that Of Capricornus after that time. He rises near the S.E. by E. all the month; on the 1st at 4h. 30m.; on the 15th at 4h. 11m.; and on the last day at 3h. 40m. a.m. He souths on the 1st, at 8h. 24m, and on the last day at 7h. 56m. a.m. at an altitude of 15° at the beginning and of 18° at the end of the month.

On the 1st, he with Alpha Ophiuchi and Alpha Aquilæ form a triangle, the Planet occupying the lower angle, distant from Alpha Ophiuchi by 43°, and from Alpha Aquilæ by 33°; on the 14th, 15th, and 17th, the planet is situated in the lines drawn from the Pole Star, through Gamma Aquilæ; Alpha Aquilæ and Beta Aquilæ respectively at the distance of 33° south of the 1st star; of 31° from the 2nd, and of 28° from the last, these three stars being those characteristic of the constellation Aquila. On the 24th he is situated in a line from the Pole Star, passing midway between Alpha Aquilæ, and that remarkable group of stars called Delphinus, following Alpha Aquilæ, and at about 30° distance from this star. He is also situated on this day in the line joining the Pole Star and Alpha Capricorni, continued 8° from the latter star.

ECLIPSE OF MOON ON THE 31st.





JUPITER will be in the constellation of Taurus throughout the month; and he will set at the N.W. by N. part of the horizon during that time; on the last at 1h. 55m. A.M; on the last day at 0h. 17m. A.M. He souths at an altitude of 59° every day; on the lst, at 5h. 50m. P.M; on the last, at 4h. 8m. P. M.

His motion throughout the month is slowly towards the east; on the 1st day he is about 5° N. of Aldebaran, and towards the end of the month he is about 8° N.N.E. of that star, in a line joining it, and Beta Aurigæ; he is also about 15° east of the Pleiades.

SATURN rises about 4° N. of E.S.E. all the month; on the 1st, at 6h. 47m. SATERN rises about 4° N. of E.S.E. all the month; on the 1st, at 6n. 47m. A.M. and on the last, at 4h. 56m. A.M. On the same days he souths at 11h. 52m. A.M., and at 10h. 7m. A.M. respectively. He is moving slowly to the east, among the stars. At about the middle of the month he is at the distance of 25° S.S.W. of Alpha Pegasi; 33° S.W. of Garman Pegasi (the two southern stars in the square of Pegasus) and 21° N. of Fomalhaut. This month is a bad one for observing him.

URANUS souths at an altitude of 43° on every dsy: on the 15th at 1h. 19m. m. He sets at 3° south of W. by N.; on the 1st, at 8h. 37m. P.M; and on the last day at 6h. 49m. P.M.

POSITION OF THE CONSTELLATIONS RISING ON THE MERIDIAN, AND SETTING ON THE 1st. DAY AT 10H. P.M.

Constellations Rising.	Constellations on the Meridian	Constellations Setting.	_
	Thetail of Cygnus, 6° above N. horizon The knee of Cephcus, 35°	N.W.	in

above N. horizon The shoulders of Hercules Polaris

The fore-legs of Aries in

in N.E. by E.

The head of Serpens in E. The head and fore-legs of The head of Cetus in W Ursa Major, between Polaris and the Zenith

The feet of Virgo in E.

The feet of Corvus in S.E.

The feet of Corvus in S.E.

by E.

The feet of Corvus in S.E.

The dail of the Lynx, near

the Zenith

The fore-legs of Lepus in S. W.

S. W.

Major in S.S.W. A part of Hydra in S.E. The head of Hydra, 45°

Tade of	active to the regimming and of 10 arctice and of the mother.															
of nth.	Length of Day, or number of	Number of Hours and	Time of	Time	06	JUPITER'S SATELLITES.					OCCULTATIONS OF STARS BY THE MOON.					
Days of the Month.	hours be-	Minutes the day has in- creased since the Shortest Day.	Day hreak, or beginning of Twilight.	Twili endi	ght	lst. Se Emersi		2n	d. Sat.	Nan	nes of the	Stars.	Time and re	s of disappe appearance Star.	e of the	At the dark or bright limb of the Moon.
1 6 11 16	н м. 10 50 11 8 11 29 11 51	н. м. 3 5 3 23 3 44 4 6	H. M. 4 54A.M 4 43 ,, 4 32 ,, 4 20	7 4	м. 32р.м 11 ,, 19 ,,	B. H. M. 6 7 4 13 9 3 20 11 3 29 7 5	2 P. M. 7 ,, 3 ,,	5 8 12 10	м. 0 р. м. 35 "	Zeta	3 Libræ		6 { 8	н. м. 0 40 а. : 1 26 ,,		Bright Dark
21 26 31	12 9 12 28 12 49	4 24 4 43 5 4	4 20 ,, 4 7 ,, 3 54 ,, 3 41 ,,	8 1	8 ,, 8 ,, 30 ,,	25 7 3		1 9 Imme 2 0	34 P. M. ersion 7 A. M. rsion	Lame	'auri oda Gemin 12 Cancri		$ \begin{array}{c c} 5 & \begin{cases} 22 \\ 5 & \\ 6 & \end{cases} \\ 6 & \end{cases} $	6 33 P. 1 7 41 ,, 8 46 P. 1 9 33 ,, 7 41 P. 1	M.	Dark Bright Dark Bright Dark
			HE MOON, est distance	ay of the Month.	ME	ERCURY.			NSIONS A) .	CLINATIO	NS OF '		9 2 " NETS. URN.	UR	Bright ANUS.
(Apog		er least dis	tance (Peri-	Day of Mon	Righ Ascensi		Right Ascension	Declina- tion	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion South,	Right Ascension	Declina- tion North.
LAST NEW FIRST	EE	2D. 3 10 4 16 9 23 5 31 9 2 2 16 0 29 6	11 P.M. 5 41 P.M. 17 P.M. 2 P.M. 9 P.M.	1 6 11 16 21 26	23h.30 0 1 0 28 0 45 0 52 0 47	0 33N. 4 36 7 36 9 4	23h 56m 0 18 0 41 1 3 1 26 1 49	1° 46s 0 49N. 3 24 5 58 8 28 10 53	18h.59m 19 14 19 29 19 45 20 0 20 15	23° 20′ 23 1 22 36 22 6 21 30 20 50	4h. 25m 4 27 4 30 4 32 4 35 4 38	21° 13′ 21 18 21 25 21 31 21 38 21 45	22h.26m 22 29 22 31 22 33 22 36 22 38	11h.22m 11 9 10 57 10 44 10 32 10 19	0h.46m 0 47 0 48 0 49 0 50 0 51	4h 17m 4 24 4 30 4 36 4 43 4 50

March Anniversary.



CROWNING OF BRUCE.

THE CROWNING OF BRUCE.

27TH MARCH, 1306.

The Earl of Cloucester, a kinsman of Bruce, had notice of his friend's danger, and anxions to save him, yet afraid in so serious a matter, too rashly to compromise his own safety, sent him a piece of money and a pair of golden spurs. Bruce understood the counsel thus symbolically communicated, and instantly set out for Scotland, accompanied by his Secretary and a single attendant. He is said to have reached Lochmaben Castle on the fifth day after his departure from London, and thence repairing to Dumfries, where Comyn was, he sought a private interview with him. From some inward misgiving, no doubt on the part of Comyn, the meeting took place in the convent of the Minorite friars. Here Bruce passionately reproached Comyn for his treachery, and after some altercation drew his dasger and stabbed him to the heart. Immediately hastening from the spot he called for his attendants, who seeing him pale and agitated inquired the cause. "I doubt I have slain Comyn," was the reply. "You dout," cried Kirkpatrick, fiercely, "I'se mak' sicker," and rushing towards Comyn, despatched him on the spot. Almost at the same moment Sir Robert Comyn, the uncle, who came into the convent on the noise of the scuffle, shared a similar fate. The alarm soon became general, and the English judges, then holding a court in a hall of the Castle, not knowing the extent of the danger, hastily barricaded the doors. Bruce, assembling his followers, surrounded the Castle, and, threatening to force their entrance by fire, compelled those within to surrender. He soon afterwards proceeded to Scone, the ancient seat of Scottish in auguration, and was there crowned King of Scots, on the 27th March, 1306. Edward had carried the regalia to Westminster, but their place was soon supplied. The Bishop of Glasgow furnished from his own stores the robes in which Bruce was arrayed; and a slight coronet of gold being got from the nearest artist, the Bishop of Glasgow furnished from his head. The Bishop of Glasgow furni

added to the popular interest felt for the young King, repaired to Scone, and asserting the privilege of her ancestors, placed the crown a second time on the head of Bruce. The eyes of all Scotland were now directed towards Bruce. Comyn was no more; and the brave Sir William Wallace had been executed by the English. Bruce was therefore without a rival; he was the helr to the throne, and his past conduct had given ample earnest at once of his intreplicity and prudence; he was regarded as the last remaining hope of his country.

BALLAD OF THE CROWNING OF THE BRUCE.

There is come to the Bruce from Edward's Court,
From a kinsman true and hold,
A rowell'd pair of golden spurs,
With a money coin in gold;
An! the spurs say—"Fly i brook no delay,"
Au! the coin—" Use gold to speed the way."

Au! the coin—" Use gold to speed the way."

The Bruce is gone, and the storm-bird's wing Had never a swifter flight; In five short days, to the Scots' amaze, He is treading Lochmahen's height; And one other dash on his king-path secs. The Bruce in the city of fair Dumfries!

The Bruce in the city of fair Dumfries!

He has flashed on the craven Comyn's gaze, By the Minorite Convent-gate, One deep reproach, one gurgling threat, One glance of deadly hate; And the sheath freed dagger is gleaming red In the burning blood of a traitor dead!

St. Andrew's mitred lord has placed On his head the light gold band, And the Ballol-broidered flag is waved By the Glasgow Bishop's hand; While under its bannered pomp men hring The homage of nobles to Bruce their King!

Then a glorious woman, wond'rous fair,
Steps out from the brilliant train,
And is dazzling all with her beauty rare,
While she crowns the Bruce again!
My he not call the hattle his own,
When an angel leads him to Scotland's throne!

MARCH.

In the month of March the woods and banks by the roadside are full of wild flowers; amongst the most beautiful of which may be mentioned princroses, violets, several kinds of veronica or speedwell, the common coltsfoot, with its golden star-like flowers without a single green leaf; the rare whitlew grass, both white and yellow; the golden saxifrage; the little white wood anemone; and the lesser cclandine, or pilewort, the shining golden yellow flowers of which appear at first sight to resemble those of the buttercup, though upon examination it will be found that their petals are numerous and sharp-pointed, while these of the buttercup are rounded and their number never exceed five. those of the buttercup are rounded, and their number never exceeds five.

Pansies, liies, king-cups, daisies, Let them live upon their praises; Long as there's a sun that sets Primroses will have their glory; Long as there are violets They will have a place in story; There's a flower that shall be miue, 'Tis the little celandine.

See its varnish'd golden flowers Peeping through the chilling showers, Ere a leaf is on the bush, In the time before the thrush Has a thought about its nest,

Thou wilt come, with half a call,
Spreading out thy glossy breast,
Like a careless prodigal;
Telling tales about the sun
When we've little warmth or none.

When we've nature warmin' or home Comfort have thou of thy merit, Kindly unassuming spirit; Carrless of thy neighbourhood, Thou dost show thy pleasant face On the moor, and in the wood, In the lane—there's not a place, Howsover mean it be, But 'tis good enough for thee.

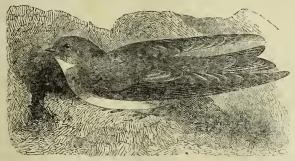
In the lane—there's not a place,
In the time before the thrush
Has a thought about its nest,

Several of the forest trees are also now in flower; the willow, with its soft downy
catkins; the acers, with their feathery blossoms; the elm, with tits of purplish
flowers, which, though too small to attract attention individually, yet give a kind
of glow to the young shoots of the tree; and the lime, with its pale green flowers
of delightful fragrance. The catkins of the hazel are now quite ripe, and the
solitary crimson female flowers appear. The catkins of several kinds of poplars
are also very conspicuous; and almost all the deciduous trees are partially in
leaf. The black poplar, however, does not unfold its leaves till May, though it
produces its large dark-red catkins in March, and towards the end of this month
they fall, looking like great caterpillars on the ground. The capsules of the
female catkins are enveloped in white cotton.

In this month the underwood of woods and forests is generally cut down;
and the timber trees are felled, as, from the rising of the sap, the bark is more
easily separated from them in this month than in any other. In the gardons,
the almond, the apricot, and the peach, are now generally in flower; the Pyrus,
or Cydonia, Japonica, opens its bright scarlet blossoms; and the Corchorus,
the almond, the apricot, and the peach, are now generally in flower; the Pyrus,
or Cydonia, Japonica, opens its bright scarlet blossoms; and the Corchorus are
in full beauty, and nearly all the different kinds of narcissus and jonquils.

Many birds are in full song in this month. The garden thrush is one of the
most interesting of the British songsters; and, like the nightingale, it sings
nearly all night. Its nest is large, but not very compact, and its eggs are of a
bluish tint, with irregular brown blotches. It lives principally upon snails,
cracking their shells against a stone; and an amusing story is told of a tame
thrush, which, being led tout of its cage to fly about a room, took its mistres's
p

kind of snail was concealed within it. When the garden thrush is disturbed on her nest, she ruffles her feathers, spreads her tail, and snaps her bill with great force to drive away the intruder. As a great many nests may be found at this season, it may be useful to observe that the eggs of singing birds are almost always speckled, and generally on a dark ground. The greenfinch, the common wren, and the willow wren, have white eggs, spotted with red; the eggs of the house sparrow are of a dingy green, streaked with black; and those of the hedge sparrow, the magpie, and the crow, are of a greenish blue. The eggs of the raven are large, and of a dark green, blotched with brown; those of the flycatcher are of a bright clear blue; and those of the kingfisher are white. The eggs of the nuthatch and of the greater titimouse are both white, with very small spots of red, and it is difficult to distinguish them from each other. The duck begins to lay in this month; the goose sits on her eggs; and the cock-pheasant begins to crow. At this season the curious nests of the sand-martins may be observed, and they consist simply of holes in the perpendicular front of a sand rock, being sometimes so deep as to take a man's arm up to his shoulder



THE SAND MARTIN

THE SAND MARTIN.

without reaching the bottom. Rennie gives the following description of the mode in which the sand martin builds its nest. He says he has seen "one of these swallows cling with its sharp claws to the face of a sand-bank, and peg in its bill as a miner would do his pickaxe, till it had loosened a considerable portion of the hard sand, and tumbled it down amongst the rubbish below. In these preliminary operations it never makes use of its claws for digging; indeed, it is impossible it could, for they are indispensable in maintaining its position, at least when it is beginning its hole." He also observes that the holes of some of these swallows are as nearly circular as if they had been drawn with a pair of compasses. The bird begins in the centre, and works outwards, changing its position continually, and it is as often hanging from the roof, with its back downwards, as standing on the floor. When the hole is of considerable depth, the bird "always scrapes out with its feet the sand detached by the hill; but, so carefully is this performed, that it never scratches up the unmined sand, or disturbs the plane of the fifoor, which rather slopes upwards, and, of course, the turbs the plane of the floor, which rather slopes upwards, and, of curstillors, which rather slopes upwards, and, of curstillors, of course, the lodgment of rain is thereby prevented." There is a whole colony of these swallows in the sand-banks near Woking, in Surrey; and there are others in various parts of Great Britain, from Devonshire to the north of Scotland.

About this season frogs reappear. They pass the winter in a state of absolute orpidity, in the mud at the bottom of the water in which they generally live. Here they congregate in multitudes, embracing each other so closely as to appear

almost as one continuous mass." (Bell.) On the return of spring, they separate amost as one continuous mass." (Delt.) Of the return of spring, they separate from each other, and emerge gradually ioto active life. The eggs of frogs undergo eleven changes before the perfect animal is produced; and for at least a month they remain in what is called the tadpole state, in which the creature has a large head, and long body, but no legs.

The toad is torpid, like the frog, during winter; but it generally chooses for the place of its retreat some sheltered hole, or hollow tree.

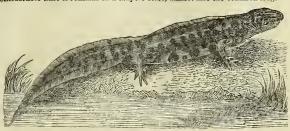


THE COMMON WARTY NEWT: MALE.

The warty newt is in a state of great activity early in spring. It is common in ponds and large ditches, where it feeds upon the tadpole of the common frog. The male and the female newt are nearly the same in appearance during winter; but, in spring, a beautifully-cut crest rises from the back of the male, which is highly ornamental.

highly ornamental.

The manner in which the eggs are deposited is very interesting. "The female, selecting the leaf of some aquatic plant, sits, as it were, upon its edge; and, folding it by means of her two hinder feet, deposits a single egg in the duplicature of the folded part of the leaf, which is thereby glued most securely together, and the egg is thus effectually protected from injury." As soon as the female has, in this way, deposited an egg, she seeks another leaf, on which she deposits another egg in the same manner; and in this way she proceeds till she has deposited as many eggs as she requires. The egg is very slightly tinged with buff, and it is surrounded by a substance resembling the white of a common egg, in which it keeps continually whirling round. It now goes through nine changes from the egg till it becomes a perfect insect, and for a considerable time it remains in a tadpole state, almost like the common frog.



THE COMMON SMOOTU NEWT: MALE.

The smooth newt is found in considerable numbers in almost every ditch and pond, especially where the water is tolerably clear; and it affords food not only to several kinds of fish, but to the watry newt, which is much larger than itself. Its own food consists of grats, and other small insects, and also of the Planorbis, and other British molluscous animals, which it devours when they are quite young. In the month of June these animals quit the water, and remain for some time on land; the younger ones return to the water in autumn; but some of the older ones appear to become completely terrestrial, and may be found creeping about in damp places near water, and semestimes working seen into celleng older ones appear to become completely terrestrial, and may be found creeping about in damp places, near water, and sometimes venturing even into cellars. About the latter end of autumn, or the beginning of winter, the male newt acquires a crest, and his tail spreads out into a kind of web; both the tail and the crest being tipped with red. The body of the animal is also of a bright orange, passing into red; but, in June, when the newt quits the water, it loses its crest, its tail contracts, and its vivid colours change into a dull and uniform hue. The metamorphoses of this species differ very little from those of the larger kind, but the female is less careful in depositing her eggs, as she frequently lays three or four together upon an open lest

larger kind, but the female is less careful in depositing her eggs, as she frequently lays three or four together upon an open leaf.

Bees generally become active in the month of March, as they are particularly fond of crocuses, which are generally in full flower in that month, and the bees partake so freely of their juices that it appears to intoxicate them. It is well known that the queen bee is longer and larger than the rest, and, as she is not intunded for word, here processing over the standard of the processing of the processing over the standard of the processing over the standard of the processing of the pro partake so freely of their juices that it appears to intoxicate them. It is well known that the queen bee is longer and larger than the rest, and, as she is not intended for work, her movements are slow and apparently awkward. It is not, however, perhaps, so generally known that when bees swarm it is always the old queen that leaves the hive, while the young one remains behind. Bees are said to converse by crossing their antennæ; and it is certain that before swarming the queen may be seen golog from one end of the hive to the other, and laying her antennæ across those of every working bee sho meets with in the course of her progress; and also that each bee, as soon as touched, though quiet before, becomes instantly in a state of wonderful agitation, hurrying to and fro as though preparing for his journey, and at last joining the other bees that had been touched and all assembling together to be ready to attend their queen. The caddis worm, and other insects that live under water, sometimes begin to leave their cocoms in this month. The purple capricorn beetle, which is generally found feeding on the bark of trees that have been felled, goes into its chrysalis state in March, and reappears as a perfect insect in May or June. "When the insect is about to assumo its chrysalis state, it bores down obliquely into the solid wood, to the depth sometimes of three inches, and seldom if ever less than two, forming holes nearly semi-cylindrical, and of exactly the form of the grub which inhabits them."

This beetle is sometimes called the goat chaffer or musk beetle, on account of it smusky smell. The ground beetle is frequently found in the beginning of March, in paths near walls, where the sun has considerable power. It is one of the largest and most beautiful of the beetles which are natives of Great Britain. Its body is rather long and narrow; its head, breast, and wing cases are of a brilliant green, the latter being marked lengthwise with rows of oblong raised spots; and the under side of the insect is of a glossy



					a Bit shorts.							
			1	SUN.	II	MOON.	1		OF MOONLIGHT	HIGH WATER	EQUA-	
Ŋ	1	ANNIVERSARIES, OCCUR-	- 1	DECL			SETS.	Before Sunrise.	After Sunset.	Ar London Bridge	TIME.	
D	D	RENCES, FESTIVALS, &c.	RISES,	SETS. TIC		Souths	Morning.	2h. 3h. 4h.	Sh. 9h. 10h.	Morning, Afternoon		
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- 8	3 TH	The Sun rises E. hy N. and sets W. hy N.	5 22 6	5 43 7	5 1 18	5 50	10 25		(6 34 6 59	1 59 98	
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1:	3 Tu	Easter festivities, and thus it was considered a feast	5 11 6	5 50 8	55 4 14	10 23	4 44	VIIIIAVIIIIAVIIIIAVIIIIAVIII	28	0 1 0 30	0 37 103	
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1;	7 S	Spica Virginis souths at 11h. 35m, P.M., 28 deg, high	$5 2 \mid 6$	5 57 10	21 6 29	2 8	9 53		2	3 14 3 36	0 22 107	
13	3 5	2ND SUN. AFT. EA.	5 06	5 59 10	42 7 14	3 4	10 57		3	3 56 4 18	0 36 108	
19		St. Alphage	4 57 7	7 111	3 8 5	3 59	11 51		4	4 39 5 0	0 50 109	
2	Tu	B Leonis Souths 9h. 47m.		7 9 1 1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		11 31		5	7 00 5 44	1200	
9	1 117	Regulus souths at 8h. 2m. g. M.	1 00,	2 1 1		4 52	Morning.				1 3 110	
2	W	51 deg. high	4 55 7	-	44 10 0	5 42	0 38		0	6 6 6 30	1 16 111	
2:		Venus sets 10h. 3m. r.m.	4 53 7	6 12	5 11 0	6 29	1 16		D -	6 57 7 25	1 29 112	
2:	3 F	St. George	4 51 7	8 12	25 Afternoon	7 14	1 47	20000000000000000000000000000000000000	8	7 58 8 34	1 41 113	
2	1 S	& Corvi Souths 10h. 16m.	4 49 7	7 10 12	45 1 6	7 58	2 15	9//////////////////////////////////////	0	9 14 9 49	1 52 114	
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2	J.M.		4 45 7	13 13	24 3 10	9 23	3 4		11	11 35	2 14 116	
2	7 lù	η Böotes Souths 11h. 26m.	4 43 7	14 13	43 4 12	10 5	3 26	1000000	12	0 5 0 27	$ 2 \ 25 117$	
28	3 W	The Sun rises E.N.E. and sets	4 41 7	7 16 14	2 5 16	10 49	3 48	700000	13	0 48 1 7	2 34 118	
2	TH C	Mars rises 2h. 41m. A.M.	4 39 2	7 17 14	21 6 21	11 34	4 13	7///	14	1 26 1 43	2 44 119	
3	1	Arcturus souths at 11h, 36m.	4 37 7	1014	40 7 93	After	4 40			2 0 2 15	2 52 120	
	-	r.m. 58 deg. high	x 017	19/14	40 / 23	disnight.	4 40			11 2 0 2 10	12 021120	

THE Moon from the 1st to the 6th rises during the evenings. On the 1st, very nearly at the same time as Spica Virginis, from which star she is distant a few deg. N, and during the night is moving eastward from it. On the 2d, she is in Virgo; on the 3rd and 4th, in Libra, directing her course a few deg. N of Antares. On the 5th, 6th, and 7th, she is in Ophinchus; on the 5th being N.E. of Antares.

On the 8th, at 3h. 26m. in the afternoon, she enters her 3rd quarter and does not rise on the 8th at all. On the 9th, she rises early in the morning, and is in Aquilla. On the 10th, 11th, and 12th, she is in Aquarius. On the 13th, in Pisces; and at 7h. A.M., on the Equator, moving N. On the 15th and 16th, in Aries. On the 15th aft of 15th, and 15th and 16th, in Aries. On the 15th aft of 15th, and 15th and 15th and 16th and 15th and takes place, but it is invisible in this country.

takes place, but it is invisible in this country.

On the I7th, 18th, and 19tb, she is in Taurus, her crescent being seen soon after sunset, on the 18th a little E. of Aldebaran, and directing her course to the Milky Way. On the 19th, she is in part of Orion in the Milky Way. On the 20th and 21st in Gemini, being on the latter day a few deg. S E. of Castor and Pollux. On the 22th, at 9h. 9m. In the morning she enters her first quarter, and is in Cancer. From the 23rd to 25th, she is in Leo. On the 24th, during the evening, she is a few deg. below Regulus, moving Eastward from the star. On the 26th, at 9h, is on the Equator, and going S. From the 26th to the 29th, is in Virgo. On the 28th, before midnight, she is W. of Spica Virginis; and at midnight passes the star, being about 3° N. On the 30th, she is in Libra; and at 1h. 26m. P.M. is full, but without an eclipse, beding 2½° from the Ecliptic.

Mexcusy will be in tho constellation of Pieces till the 17tb. and after that time in that of Cetus; on the 1st he rises at 5h. 23m. A.M., in the E. by N.; and souths a few minutes before the Sun. On the 6th, he rises at 5h. 0m. A.M.; on the 1st, at 4b. 21m. A.M.; and on the 26th, at 4h. 13m. A.M. Between the 14th and the 24th, be rises very nearly E, and after the latter time a little N. of E, and souths at an altitude of 38° at about 10h. 25m. A.M. A.M. A.M. At about the middle of the month he rises only about half an hour before the Sun, and, therefore, he is not favourably situated for observation; at that time he is about 14° S.S.E. of Gamma Pegasi.

Venus will be in the constellation of Aries till the 14th, on which day she passes into that of Taurus.

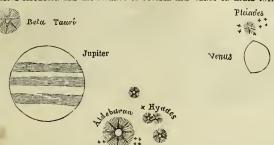
VENUS WILL BE IN THE CONSTRUCTION OF AFRES IN THE 14th, on which day she passes into that of Taurus.

On the 1st she souths at 1h. 40m, P.M., at the altitude of 52°; and sets at 8h. 56m, in the W.N.W. On the 15th, she souths at 1h. 52m, P.M., at the altitude of 58°; and sets at 9h. 41m, P.M. near N.W. by N. On the 30th, she souths at 2h. 8m, P.M., at the altitude of 62°; and sets at 10h. 26m, P.M., nearly midway between

8m r.m. at the altitude of 62°: and sets at 10h. 26m. r.m., nearly midway between N.W. by N. and N.W.

On the 1st, she is situated about 21° from the Pleiades, and 10° from Alpha Arietis, and she forms, with those two objects, a triangle, being below the line joining them; she is moving towards the Pleiades till the 18th, being, however, on the 9th in a line joining the Pole Star, Beta Persei, and Alpha Ceti, and distant 14° N. of the latter star. During the evening of the 16th she is £, and during that of the 17th she is W. of the Moon; and on the former she is about 5° above her. On the 18th, she is 3° S. of the Pleiades, and after this time she is moving from them. On the 28th, she, with the Pleiades and Aldeburan, form a right angled triangle, being distant 10° E. of the Pleiades, and 6° N. of Aldebaran; after this time, to the end of the month, she is a little E. of the line joining the Pole Star and Aldebaran, and moving towards the Planet Jupiter.

RELATIVE SITUATION AND APPEABANCE OF JUPITER AND VENUS ON APRIL 18TH



is the part to be referred to in comparison with the situation of the neighbouring stars, and to each other.

Mars will be in the constellation or Capricornus till the 26th, and in that of Aquarius after that time. He rises near the S.E. by E. at the beginning; midway between S.E, by E. and E.S E. about the middle; and near the E.S.E. at the end of the month. On the 1st, at 3h. 39m.; on the 15th, at 3h. 11m., and on the last day, at 2h. 34m, A.M. He souths on the 1st, at 7h. 56m. at an altitude of 19° and on the 30th at 7h. 25m. A M., at an altitude of 24°.

On the 1st he is situated in a line drawn from the Pole Star through Delphinus, and at 35° distance from these stars. On the 1sth, he is situated in a line joining the Pole Star and Beta Aquarii; produced to the distance of 11° S. of the latter star; he is also 38° distant from Alpha Pegasi, and 35° from Alpha Aquarii produced 13°; and he is 30° from Alpha Pegasi.

13°; and he is 30° from Alpha Fegasi.

JUPITER will be still in the constellation of Taurus throughout the month. He sets a little N. of the N.W. by N. point of the horizon. On the 1st a oh. 14m.

A.M. On the 5th he sets twice on the same day, viz, at oh. 1m. A.M., and at 11h. 58m. P.M. On the last day he sets at 10h. 54m, P.M. He souths at an altitude of 61°. On the 1st, 4h. 4m., and on the last day, at 2h. 34m. P.M.; on the 1st, he is about 8° N.N.E. of Aldebaran, and he is moving eastward towards the Milky Way during the month; at the end of the month he is nearly in a line joining Capella and Rigel, being 24° distant from the former, 31° from the latter, and about 7° W. of the Milky Way. The star 3° above him, is Beta Tauri.

SATURN rises about midway between E.S.E. and E. by S. all the month; on the 1st, at 4h, 52m. a M., and on the 30th, at 3h. 2m. a.M. He souths at an altitude of 28°; on the 1st, at 10h. 4m., and on the last last day, at 3h. 20m. a.M. His motion among the stars is very slowly towards the E. He is situated nearly in a line joining Alpha Pegasi and Fomalhout, and nearly midway between them; his distance from the former being 24°, and from the latter 22°. These two stars are the guiding stars for finding him throughout the remainder of the year.

Uranus during this month, rises, souths, and sets very nearly at the same times as the Sun does—and, therefore, he cannot be seen. On the 91b he passes from the constellation of Cetus to that of Pisces, in which he remains during the remainder of the year.

TIMES OF THE SOUTHING, &c. OF THE PRINCIPAL FIXED STARS, WHICH PASS THE MERIDIAN BEFORE MIDNIGHT.

Stars Names.	nude.	Time of	ing the	above the	Setting.					
	Mag	evening of the lst. day.		S (South) N (North)	No. of hours from southing.	Point of the horizon.				
Carter	3	н 6	м. 47	71°s	н.	Near N.W.				
Castor Procyon	1	6	53	448		Near W by N.				
Pollux	2	6	58	678	$\frac{6\frac{1}{2}}{9}$	Near N.W.				
Alpha Hydræ	2	8	42	3ls	51	Near W. by S.				
Regulus	í	9	21	51s	71	W.N.W.				
Alpha Ursa Majoris) î	10	15	79N	Never Sets	17.24.17.				
Beta Leonis	3	ii	2	548	71	Near W.N.W.				
Deta Leoms			4	943	1 2	1 11002 11.11.11.				

POSITION OF THE CONSTELLATION'S RISING ON THE MERIDIAN, AND SETTING ON THE 1st DAY AT 10H. P.M.

Constellations Rising.	Constellations on the Meridian.	Constellations setting.
nus in N.N.E.	above N. horizon	The body of Andromeda near N.W. by N.
Lyra, 13° high above N.E.		Musca, between N.W. and N.W. by W.
The head of Hercules, and	The hind legs of Ursa	The neck of Taurus, 10°
the head of Ophiuchus,	Major, and the stars	
midway between E. by	Alpha & Beta (the point-	
N., and E.N.	ers) between Polaris and the Zenith	
The middle of Serpens, be-	Leo, 50° above S. horizon	Orion in W. by S.
tween E. and E. by S.		
Both scales of Libra in	The body of Hydra 25°	The head of Canis Major in

The Planets are drawn on a scale of 40" to an inch. The centre of each Planet The tail of Hydra in S E. S. W. by W. above S. horizon

ith.	Length of Day, or	Number of hours and	Time of	Time of	JUPITER'S S.	ATELLITES.	OCCULTATIONS OF STARS BY THE MOON.				
Days of the Month.	hours be- tween Sun-	creased since	or heginning of Twiight.	773	lst, Sat.	2nd. Sat.	Names of the Stars.	Magni.	Times of disappearance and re appearance of the	At the dark or bright limb	
- -	rise and Sunset.	the Shortest			Emersion.	Emersion.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ma	Star.	Moon.	
1 6 11	н. м. 12 53 13 13 13 32	н. м. 5 8 5 28 5 47	n. m. 3 38A.M. 3 24 ,, 3 9	н. м. 8 31 р.м. 8 43 " 8 53 "	D. H. M. 5 9 54 P. M. 21 8 14 P. M.	D. н. м. 6 7 40 р. м. 13 10 15 р. м.	A2 Caneri	6	D. M. M. \$22 11 24 P. M. 23 0 16 A. M.	Dark Bright	
16 21 26 30	13 50 14 9 14 28 14 42	6 5 6 24 6 43 6 57	2 54 ,, 2 38 ,, 2 21 ,, 2 6 ,,	9 6 ,, 9 21 ,, 9 32 ,, 9 50 ,,		3rd. Sat. 6 8 15 p. M. Emersion 13 9 40 p. M. Immersion	Lambda Virginis	4	30 4 16 A. M. At the time the star emerges the Moon will have set.	Nearly Full Moon	
TIME	S OF CHA	MORE OF	THE MOON	J	RIGI	HT ASCENSIONS AN	D DECLINATIONS O	FTH	E PLANETS.		

MANAGE OF STREET		Í		ptcu	PACCEN	CLONE A	ND DEC	TINATIONS OF	THE PLANETS.		
TIMES OF CHANGES OF THE MOON, And when she is at her greatest distance	of the	MER	CURY.		VUS.	MA		JUPITER.	SATURN.	URA	NÚS.
(Apogce), or at her least distance (Perigee) from the Earth in each Lunation.	Days of	Right Ascension	Declina- tion North	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion South	Right Ascension North	Right Ascension South.	Right Ascension	Declina- tion North.
LAST QUARTER	1 6 11 16 21 26	0h. 32m 0 20 0 14 0 15 0 23 0 37	6° 53′ 3 48 1 38 0 26 0 18 1 8	2h. 17m 2 41 3 5 3 29 3 54 4 19	15 49 17 49 19 37 21 13	20h. 33m 20 48 21 3 21 17 21 32 21 46	19° 56′ 19 5 18 11 17 13 16 11 15 6	4h, 42m 21° 54 4 46 22 4 4 50 22 8 4 53 22 18 4 58 22 29 5 2 22 29	22 48 9 23	0h. 53m 0 54 0 55 0 56 0 57 0 58	4° 59′ 5 4 5 11 5 18 5 24 5 30

NOTE - Declination is angular distance from the Equator, and it is North or South according as the object is North or South of the Equator; when, therefore, an object is on the Equator, it has no Declination.

April Anniversary.



THE BATTLE OF CULLODEN.

THE BATTLE OF CULLODEN

"Drummossie Muir, Drummossie day, A waeful day it was to me; For there I lost my father dear, My father dear and bretbren three."

My father dear and brethren three."

This celebrated hattle was fought on the estate of Culloden, Inverness, on April 16, 1746, and which is memorable as having put an end to the Rebellion. On the night preceding, the Highlanders had intended to surprise the Duke of Cumberland, in his eamp, at Naim; but this scheme having failed, they took up a position on the Moor of Drummossie, their left wing towards the house of Culloden, where the declivity of the hill was soft and marshy, their right slightly protected by a stone wall. The ground was unfavourable, and the Highlanders were weakened by hunger and fatigue, so that it had heen judged expedient to withdraw to the hills; but the difficuly of finding subsistence for the men, and the importance of protecting Inverness, determined the Prince Charles Edward and his councillors to venture a hattle. Drawn up in a line in the position above mentioned, while waiting for the signal to charge, the Highlanders suffered greatly from the English artillery. Exasperated, at last, beyond endurance, the centre rushed forward; and the last charge of the Highlanders under their patriarchal discipline, and with their peculiar arms, is thus vividly described in Chamhers's "History of the Rehellion":—

"A lowland gentleman, who was in the line, and who survived till a late pre-

"History of the Rehellion":—

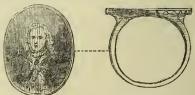
"A lowland gentleman, who was in the line, and who survived till a late period, used always, in relating the events of Culloden, to comment with a feeling of something like awe upon the terrific and more than natural expression of rage which glowed in every face and gleamed in every eye, as he surveyed the extended line at this moment. Notwithstanding that the three files of the front line of English poured forth their incessant fire of musketry: notwithstanding that the cannon, now loaded with grape-shot, swept the field as with a hail-storm; notwithstanding the flank fire of Wolf's regiment, onward went the headlong Highlanders, flinging themselves into, rather than rushing upon, the lines of the enemy, which, indeed, they did not see for the smoke till involved among their weapons. It was a moment of dreadful, agonising suspense, but only a moment, for the whirlwind does not sweep the forest with greater rapidity than the Highlanders cleared the line. They swept through and over that frail barrier almost as easily and instantaneously as the hounding cavalcade brushes through the morning labours of the gossamer which stretch across its

path; not, however, with the same unconsciouness of the events! Almost every man in their front rank, chief and gentleman, fell before the deadly weapons which they had braved; and although the enemy gave way, it was not till every hayonet was bent and hloody with the strife.

"When the first line had heen completely swept aside, the assailants continued their impetuous advance till they came near to the second, when, heing almost annithilated by a profuse and well directed fire, the shattered remains of what had heen, but an hour hefore, a numerous and confident force, at last submitted to destiny by giving way and flying. Still, a few rushed on, resolved rather to die than thus forfeit their well-acquired and dearly-estimated honour. They rushed on, but not a man ever came in contact with the enemy. The last survivor perished as he reached the points of the hayonets."

It is said, that in one place, where a vigorous attack had been made, their hodies were afterwards found in layers three or four deep.

The right wing of the Highlanders, advancing at the same time, was attacked in flank by the English cavalry and hroken; the left withdrew almost without sharing in the fight. About 600 men were killed on each side. The battle, however, was decisive; the Prince fled to the mountains, and some days after, gave



SIGNET-RING OF THE PRETENDER.

notice to his partisans to provide for their own safety, declining to continue the contest with 8000 men, who were ready to meet him in Badenoch. This memorable event has given rise to many plaintive popular songs: a verse trom one of which, pathetically lamenting the horrors of war, is quoted ahove.

APRIL.

In the month of April most of the trees are in leaf, and all nature looks so gay and beautiful, that we cannot refrain from quoting the exquisite lines of Mrs. Hemans, called "The Voice of Spring"—

'Inc voice of Spiring"—
I come, I come! ye have call'd me long,
I come o'er the mountains with light and song!
Ye may trace my step o'er the wakening earth,
By the winds which tell of the violet's hirth,
By the prinrose stars in the shadowy grass,
By the grinrose stars as I pass,

By the geeth leaves opening as a pass.

I have hreath'd on the South, and the chestnut flowers
By thousands, have hurst from the forest howers,
And the ancient graves, and the fallen fanes,
Are veil'd with wreaths on Italian plains;
But it is not for me, in my hour of hloom,
To speak of the ruin or the tomh!

I have pass of the runn of the John And the larch has hung all its tassels forth, and the larch has hung all its tassels forth, and the rein-deer hounds through the pasture free, And the rein-deer hounds through the pasture free, And the pine has a fringe of softer green, And the moss looks bright, where no step has been.

And the pine has a ringe of softer green.
And the moss looks hright, where no step has been.

At this season a great variety may be observed in the colours of the young leaves of the trees: the balsam poplar, which is one of the earliest, has its leaves of a beautiful yellowish green; the lilac, which is also early, is of a bluish green; some oaks are almost yellow, and others are of a bright reddish brown, with a tinge of yellow; the beech is of a purplish and rather dingy brown; the elm has large red bracts, which fall off as the leaves, which they enclose, unfold; and the lime has lcaves of a peculiarly soft and tender green. The blossoms of the forest trees now also begin to show themselves; those of the lime are peculiarly fragrant, and they have attached to them a long, thin, membranous bract, which renders them easy to be recognised. The flowers of the accrs have no pctals, but the anthers of their stamens are deeply coloured—sometimes red and sometimes yellow, so that they are very ornamental; the flowers of the sycamore are drooping and very elegant. On the plane trees, the ball-like fruit of the previous year is probably still hanging, while the young lcaves are opening; those of the American plane (Platanus occidentalis) are invested in a cottony down, which falls off when the buds burst, in such quantities as to make the Americans call the tree the cotton wood. Towards the end of this month, the large red catkins of the black poplar begin to fall, and look on the ground like caterpillars of the goat moth (Cossus ligniperda). The catkins of the Italian poplar (Populus monolifera) also begin to fall towards the latter end of April, and scatter masses of cottony substance upon the ground till it is quite white beneath the trees. The sah, in this month, prodness its curieus seed pods, which, in some parts of Great Britain, are called keys, and in others cocks and hens. The hop hornbeam and the common hornbeam are also in flower in this month, and are very ornamental. Among the herbaceous plants are cows

Among the herbaceous plants are cowslips, polyanthuses, and tifully described by Clare:—

How sweet it used to he, when April first Unclord the arum leaves, and into view Its ear-like spindling flowers their cases hurst, Beting'd with yellowish white or leash hue; Ah, how delighted, humming all the time Some nameless song or tale, I sought the flowers; Some rusely dyke to jump, or hank to climb Some rusely dyke to jump, or hank to climb Govern Oft under trees we nestled in a ring.

Chilling our "lords and ladies"—() ye hours!

Dog violets, purple anemones, several kinds of orchis, the wood sorrel, ground ivy, the white meadow saxifrage, the forget-me-not and wood scorpion grass, with various kinds of ranunculus or crow-foot, and the globe flower, make the with various kinds of ranunculus or crow-foot, and the globe flower, make the fields and banks a mass of beauty. The flowers of the marsh-marigold, and those of the water ranunculus, adorn the ponds and pieces of stagnant water; and, in short, the whole country is covered with flowers. One curious plant, which is found only at this season, is the toothwort (Lathrea squamaria). It grows on the roots of trees and has a yellow stalk, clothed with white tooth-like scales instead of leaves, and bearing very pale purple flowers. Another curious plant, which is in perfection at this season, is a kind of liverwort (Marchantia hemisphærica), which, in fruit, looks like a number of little green



MARCHANTIA HEMISPHÆRICA.

toadstools growing out of flat leaves, and which is generally found with the common liverwort, on the carth in flower pots, on the banks of ditches, or in the moist

erevices of rocks.

Among the birds of this month, the most interesting is, undoubtedly, the nigbtingale, which generally arrives in England about the middle of April, and commences singing about the 26th of that month. It is elegant in its shape, though its plumage is only of a dull, greenish brown. The song of the male bird, during the pairing and hatching seasons, is probably finer than that of any other bird. It "breatbes," as Isaac Walton expresses it, "such sweet, loud music out of its little instrumental throat, that it might make mankind think that miracles had not ceased. He, that at midnight, when the very labourer sleeps securely, should hear, as I have very often, the clear airs, the sweet descant, the natural rising and falling, the doubling and re-doubling of that sweet voice, might well be lifted above the earth, and say, "Lord, what music hast thou provided for the saints in Heaven, when thou affordest bad men such hast thou provided for the saints in Heaven, when thou affordest bad men such nusic on earth?" It is a curious circumstance that, when the nightingale has once begun to sing, it is very difficult to make it stop. Even a stone thrown into the bush has no effect; and an attempt to seize the bird will only make the song cease for a few moments, as the bird, as soon as it has found a more secure posi-

tion, will recommence its song as loudly and as beautifully as before. An alarm before the bird had begun to sing would, however, probably prevent it from singing at all that night. The black-cap, or mock nightingale, is another singing bird which is generally heard in the month of April. It has a merry, cheerful song; and, though it sometimes imitates the nightingale so well as to be mistaken for that bird, yet it never can preserve its imitation long. It seems such a little madcap, that it can't bear control, and must burst forth again into its own wild, joyous notes of glee. The cuckoo begins to sing about the 14th of April, which is still called Cuckoo Day in some parts of England; and many old persons consider that they shall be unlucky all the year if they do not hear the cuckoo on that day. The wood wren, or petty-chaps, sings in April. It is a beautiful little bird, of so bright a green, that it is called, in Germany, the leafburd, or the green wren. The redstart, the titlark, the willow wren, the sedge warbler, and many other birds, begin to sing in this month.

In this month several luminous insects appear, the most remarkable of which tion, will recommence its song as loudly and as beautifully as before. An alarm

beautiful little bird, of so bright a green, that it is called, in Germany, the leafbird, or the green wren. The redstart, the titlark, the willow wren, the sedge warbler, and many other birds, begin to sing in this month.

In this month several luminous insects appear, the most remarkable of which are the glow-worm and the scolopendra. The scolopendra being seldom found, except in dry, gravelly soils, many people are comparatively little acquainted with it. It is a long, slender insect, white, or of a cream-colour, tinged with red, and having numerous feet. It lives on the ground; and, when it is seen crawling by night, it leaves a long, brilliant line of light behind it. A curious battle between one of these insects and a stag beetle is related in the Magazine of Natural History for 1832:—"A gentleman was walking in a flower garden, when he perceived that one of the beds was almost covered with a brilliant light. The light was brigbter than that of the glow-worm, and six or seven inches square; and it appeared so extraordinary, that he was determined to examine it. Wben he approached the spot, he saw, to his great surprise, a large star-beetle, quite covered with the luminous matter, which seemed to confuse and bewilder it, for it staggered about in a most extraordinary manner. Observing the beetle closely, he found that it was running and stumbling to and fro, as if blinded by its own unmatural light; every now and then stopping and thrusting its head into the ground, and rolling itself over and over, as if to try to get rid of its fiery coating. In all its movements, however, it seemed quite unable to escape from the spot of ilmminated ground; as, though it was incessantly running round and round, it never attempted to pass the boundary. The gentleman, as he watched the beot of himminated ground; as, though it was incessantly running round and round, it never attempted to pass the boundary. Scolopendra electrica, a perfect line of silvery light, slowly, but gracefully, winding itself away, without leaving t

THE DEATH-WATCH. these are the holes that have been made by the bettes. The noise which has given rise to the name of death-watch, is made by the insect striking its head against the wood. The larva is called a book-worn, when it attacks books; and old books that are seldom used are often found bored through by it; as, though it prefers the cover, when it has finished one side it searches for the other, and takes the nearest way to it by boring through the leaves of the book, however thick the volume may be. Kirby and Spence mention that in one case twenty-seven folio volumes were eaten through in a straight line by this insect. The beetle is very small, and almost black. The head is particularly small, and, from the prominence of the thorax, looks as if it were covered with a hood. Another insect of the same genus (Anobium puniceum) attacks dried objects of natural history, and all kinds of bread and biscuits, particularly sailors biscuits, in which its maggots frequently abound. In collections of insects it first consumes the interior; and when the larva assails birds, it is generally the feet that it devours first; and in plants, the stem, or ligneous part. The

arva assails offus, it is generally the feet that it devours first; and in plants, the stem, or ligneous part. The larva is a small white maggot, usually curled; and the body, which is wrinkled, consists of several segments covered with fine hairs. The jaws are strong and horny, and of a dark brown. The pupa is white, but so transparent that all the parts of the perfect insect may be seen through it. The beetle is of a reddish brown, covered with fine hairs.

The saw-fly, which is so destructive to the gooseberry bushes, generally makes its appearance in the month of April, issuing from the ground in which it has lain from the preceding September. The fly has a flat yellow body, and four transparent wings, the outer two of which are marked with brown on the edge. The female lays her eggs on the underside of the leaf



THE SAW-FLY OF THE GOOSEBERRY.

on the projecting voins, and they are so firmly attached that they cannot be removed without crusbing them. It is supposed that the female insect makes a number of very small cuts in the projecting veins of the leaf, and lays an egg in each; so that the edges of the wounded membrane grasp and hold firmly the part of the egg which is thrust into the gap by the insect. Similar insects attack the leaves of the osier and the alder.



1 -				WILD BOAR HUNT.	70			
M	w	ANNIVERSARIES, OCCUR-	SUN.	MOON.	DURATION OF MOONLIGHT.	HIGH WATER	Equa-	
D	D	RENCES, FESTIVALS, &c.		A. RISES. SOUTUS. SETS.	Before Sunrise. So So After Sunset. O'Clock.	AT LONDON BRINGE	TIME. Subt.	
_	_		NORTH.	. Afternoon Morning.	O'Clock. 1h. 2h. 3h. O'Clock. 9h. 10h. 11h.	Mo ing Afternoon	Subt.	
1	s	St. Philip	н. м. н. м. Deg. Min. 4 35 7 21 14 58	8 8 97 5 10		2 33 2 49	м. в.	
2	, -	4TH SUNDAY AFT.		Morning.	16	0 1 0 04	3 0 121	
	-	EASTER CONDAY AFT.	11 . a . l				3 8 122	
3		Regulus Souths at 7h. 12m.		1 10 20 2 0 0 45	18	3 39 3 57	3 15 123	
4	Tu	B Leonis Souths at Sh. 49m.	257 2010 02	11 10 2 00 / 20	19	4 12 4 30	3 22 124	
5	W	P.M.	1 201 21	Morning.		4 50 5 10	3 28 125	
6		St. John	4 26 7 29 16 26		21	5 33 5 55	3 33 126	
7	F	β Corvi Souths at 9h. 25m.	4 24 7 30 16 43	3 0 42 5 34 10 33		6 21 6 50	3 38 127	
8	S	Half Quarter	4 22 7 32 17 0	0 1 16 6 27 11 47	23	7 19 7 52	3 42 128	
9	5	ROGATION SUN.	4 21 7 34 17 16	6 1 45 7 19 Afternoon	24	8 30 9 12	3 46 129	
10	M	η Bootis Souths at 10h. 34m.	1 13 / 30 1/ 32	2 2 15 8 12 2 22	25	9 47 10 23	3 49 130	
11	Tu	Spica Virginis Souths at 10h. 0m. P.M., 28 deg. high	4 17 7 36 17 47	7 2 43 9 5 3 40	26	11 0 11 33	3 51 131	
12	W	Ascension Day	4 16 7 38 18 3	3 3 13 9 59 4 59	27	At Poo.	3 53 132	
13	Tiı	Holy Thursday	4 14 7 39 18 18	8 3 45 10 55 6 17	28	0 30 0 54	3 54 133	
14	F	TheILLUSTRATED	4 12 7 41 18 33	3 4 21 11 51 7 31		1 20 1 44	3 55 134	
15	S	LONDON NEWS first pub-		7 5 3 8 20		2 10 2 30	3 55 135	
16	60%	S. AFT. ASCEN.	4 10 7 44 19 1	1 5 51 Afternoon 6 39		$\begin{vmatrix} 2 & 15 \\ 2 & 55 \end{vmatrix} = 3 \begin{vmatrix} 15 \\ 15 \end{vmatrix}$	3 54 136	
17	M	Arcturus Souths at 10h. 29m.				2 10 1 0	3 53 137	
18	Tiv	P.M., 58 deg. high Coronæ Borealis Souths at				101		
19	W	St. Dunstan	4 5 7 48 19 42			20 5 05		
$\begin{vmatrix} 19\\20 \end{vmatrix}$	T.	Sun in Taurus	4 4 7 49 19 54	9 50 5 9 Naming	5 - 5		100	
$\frac{20}{21}$	IH F	Sun enters Gemini		7 10 54 5 54 0 17		5 45 6 8	3 47 140	
	- 1		4 17 59 20 10			6 33 7 0	3 44 141	
22	S	Trinity Term beg.	4 17 52 20 19		D	7 23 7 50	3 40 142	
23	S	WHIT SUNDAY	9 50 7 55 30 40	Afternoon 7 19 1 8	9 9	8 23 9 0	3 36 143	
24	IVI	Birth Q. Victoria	3 59 7 55 20 42	$\begin{bmatrix} 2 & 1 & 8 & 1 & 1 & 30 \end{bmatrix}$	10	9 32 10 3	3 31 144	
25	Ιυ	Whit Tuesday	3 58 7 58 20 53		I l	10 33 11 5	3 26 145	
26	W	Oxford Term beg.	3 57 7 57 21 4	4 6 9 28 2 16		11 34	3 20 146	
27	Тн	Camb. Term div.	3 56 7 59 21 14	$\begin{bmatrix} 1 & 5 & 12 & 10 & 15 & 2 & 42 \end{bmatrix}$	13	At Midnight 0 25	3 14 147	
28	F	The Sun riscs near N.E. hy N, and sets near N.W. by N.	3 55 8 0 21 24		14	0 44 1 5	3 7 148	
29	S	Restor. K. Chas.	3 54 8 1 21 34	1 7 20 11 54 3 44	15	1 28 1 45	3 0 149	
30	S	TRINITY SUNDAY	3 53 8 2 21 43	8 8 19 _{Merning} 4 25		2 6 2 25	2 52 150	
31	M.	Antares Souths at 11h, 45m	3 52 8 3 21 52	9 13 0 47 5 14	17	2 43 3 2	2 44 151	
					8/11/10	- "	11	

MAY.

MAY.

The Moon rises during the evenings between the 1st and the 4th. On the 1st day she is in the Constellation of Libra, and on the 2nd and 3rd, in that of Opbiuchus. On the 2nd, she rises before Antares, which star is S.E. of her during the night. Her course lies through a barren region, and her nightly recess from Antares will be for some time the chief object of notice. On the 4th at the time of rising sile is seen near the E. edge of the Milky Way, and during the night she is moving from it. On the 4th and 5th, her course is very near the boundary of the constellations of Sagittarius and Aquila. On the 5th, she does not rise till after midnight. On the 7th, she is in Capricornus; at 10h. 49m. on this day she enters her last quarter. On the 8th and 9th, she is in Aquarius, on the latter day, being directly under the square of Pegasus. On the 10th, at 3h. P.M. she is on the Equator, going N. On the 11th and 12th, she is in Aries, and on the latter day, at 3h. 23m. P.M. she is new, but without an eclipse, as she is then 3 degrees from the line joining the Sun and Earth. On the 15th and 16th, she is in Taurus, on the 17th in Gemini, and her crescent may be seen soon after Sun-set at a considerable distance S.W. of Castor and Pollux. On the 19th she is in Cancer, a region marked by no principal stars. From the 20th to the 23rd, she is in Leo, moving towards Regulus till midnight on the 21st, at which time she passes this star, and she is en the Equator, and going S., directing her course towards Spica Virginis, on the 24th, 25th, 26th, and 27th, she is in Virgo; during the night of the 24th, she is in Libra, on the 30th, in Ophiuchus, and in Sagittarius on the 18th and 29th, she is in Libra, on the 30th, in Ophiuchus, and in Sagittarius on the 18th 2th, she is full, but without an eclipse, she being 4½ degrees from the Ecliptic.

MERCURY, on the 1st passes from the constellation Cetus into that of Pisces:

Ecliptic.

Mercury, on the 1st passes from the constellation Cetus into that of Pisces; on the 11th, into Cetus again; on the 14th into Aries, and on the 25th into Taurus. During the first half of the month he is rather favourably situated for observation, and may be seen before sun-rise. On the 1st, 6th, 11th, 16th, 21st, and 26th, he rises at 4b. 2m; 3h. 54m; 3h. 47m; 3h. 40m; 3h. 36m; and 3h. 34m. in the mornings respectively. On the 1st, at a little N. of E.; on the 10th, at E. by N.; on the 20th, at E.N.E., and on the 31st at he N.E. by N. points of the horizon. He souths on the 1st, at 10h. 20m. A.M., at an altitude of 41°: on the 15th, at 10h 37m. A.M., at an altitude of 59°. His position, therefore, during the month, varies rapidly.

VENUS will be in the constellation of Taurus. till the 14th. and in that of

VENUS will be in the constellation of Taurus, till the 14th, and in that of Gemini after that time.

On the 1st, she souths at 2h. 10m. P.M., and sets at 10h. 29m. P.M.; on the 15th, she souths at 2h. 28m. P.M., and sets at 10h. 55m. P.M.; and on the last day, she souths at 2h. 47m.; and sets at 11h. 10m. P.M. The altitude at the time of southing is between 62° and 64°, and she sets nearly midway between N.W. by N. and

ing is between 62° and 64°, and she sets nearly midway between N.W. by N. and N.W., throughout the month.

On the 1st, she is 9° N.E. of Aldebaran, and about 5° W. of Jupiter; on the 5th, during the evening, Venus and Jupiter are near together, the former being about 2° N. of the latter, and both objects are nearly in the 1me Johing the Pole Star, Capella and Rigel, Venus being 21° distant from Capella, and 33° from Rigel. On the 6th, she will have passed to the east of Jupiter, but still near him. Both objects, after this time, are moving nearly in the same direction, but the much greater rapidity of the motion of Venus will cause them to become more and more separated day by day. Venus is moving towards a point south of Castor and Pollux; between the 8th and the 17th, she will be crossing the Milky Way, and at the end of the month she is situated about 8° S. of Castor, and 4° S. of Pollux, these three objects forming a pretty little triangle, of which Venus occupies the lower angle. occupies the lower angle.

She is in the neighbourhood of the Moon during the evenings of the 16th and 17th days; being about 8° E. of her on the 10th, and about the same distance W. on the 17th.

Mars will be in the constellation Aquarius till the 27th, and in that of Pisces after that time.

He rises at the E.S.E. at the beginning; midway between E.S.E. and E. by S. at the middle, and at E. by S. at the end of the month; on the 1st at 2h. 32m.; on the 15th; at 2h. 0m., and on the last day at 1h. 32m. A.M. He souths on the 1st and last days, at 7h. 24m., and 6h. 48m. A.M., at the altitude of 26° and 32° respectively.

On the 1st, he is situated in an imaginary line drawn from the Pole Star to Alpha Aquarii, and continued 13° from the latter star. On the 22nd, a line from Beta Pegasi through Alpha Pegasi (the western pair of stars forming the

quare of Pegasus) continued to the distance of 23° from Alpha Pegasi indicates

square of Fegasus) continued to the distance of 25 from Alpha vegas inductors the place of the Planet, and after this time he is moving eastward.

JUPITER will be in the constellation Tanrus all this month. He sets about 3°
N. of the N.W. by N. point of the horizon; on the 1st, at 10h. 40m. P.M., on the last day, at 9h. 15m. P.M. He souths at 2h. 30m. P.M., on the 1st day, and at 1h.

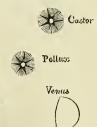
P.M. on the last day.
RELATIVE SITUATION OF VENUS AND JUPITER WITH RESPECT TO THEMSELVES AND TO NEIGH-BOURING STARS, ON MAY G.

RELATIVE SITUATION OF VENUS TO NEIGHBOURING STARS ON MAY 31.



Venus OPlace of Jupiter.





Venus is drawn on a scale of 40' to an inch. The place of Jupiter is only indicated as if drawn it would give the appearance of overlapping Venus, whilst there is some distance between them. The apparent size of Jupiter is the same as represented in last month.

presented in last month.

On the 1st, he is a little eastward of the position he occupied the last day of April; about the 20th, he will be in the Milky Way, and on the last day he will have passed about one-third of its breadth. From the middle to the end of the month le is situated about 23° N. of the three stars in Orion.

SATURI FISSE from 2° to 3° south of the E. by S. throughout the month; on the 1st, at 2h. 50m. A.M., and on the last day at 1h. 5m. A.M. He souths at an Altide of 30°; on the 1st, at 8h. 16m. A.M. and on the last day at 6h. 22m. A.M. He is situated as in April, except that he will have moved 1° nearer to Alpha Pegasi, and the same distance further from Fomalhaut. From the middle of the month, to the end, he is very nearly stationary among the stars.

TIMES OF THE SOUTHING, &c. OF THE PRINCIPAL FIXED STARS WHICH PASS THE MERIDIAN BEFORE MIDNIGHT.

11 111 011	~								
Star's Namea.	nitude.	in du	of south-	Height in degrees above the horizon.	Setting.				
	Mag		Day.	S(South). N (North)	umber of hours from aouthing.	Point of the horizon.			
Alpha Ursa Majoris	1	и.	м. 17	79°N	Never Scts				
Beta Leonis	2	9	4	54s 28s	71/2	Near W.N.W.			
Spica Virginis Arcturus	1	10	40 32	58s	74	N.W. by W.			

POSITIONS OF THE CONSTELLATIONS RISING, ON THE MERIDIAN, AND SETTING ON THE 1st. DAY AT 1011. P.M.

Constellations Setting. Constellations on the Meridian Constellations Rising. Lacerta in N.N.E.

The body of Andromeda near the N. horizon
N.E. by E.

N.E. by E.

Description:

The body of Andromeda N. by W.

Lacerta in N.N.E.

The body of Andromeda N. by W.

Medusa's head in Perseus, in N.N.W.

Polytics

The hol Aquila near E. by N. The legs of Ophiuchus in the tail of Ursa Major, the head of Orion in W. E.S.E.

Zenith he head of Scorpio in The fore-legs of Canes Ve-natici, 70° above the S. M head and chest of Monoceros, in the W. horizon

The head of Centaurus in Virgo, 40° above the S. lorizon

S. by E.

The head of Centaurus in Virgo, 40° above the S. lorizon

The tall of Corbns, 25° above the S. horizon

Polaris

the .	Length of Day, or bours and number of minutes the Day, break,		Time of	JUPITER'S SATELLITES.	OCCULTATIONS OF STARS BY THE MOON.						
Days of Month.	hours be- tween Sun-	day haa in-	or beginning of Twilight.	Twilliah+	Pelipses of	Names of the Stars.	Magni- tude.	Times of disappearance and re-appearance of the Stars.	At the dark or bright limb of the Moon		
1	н. м.	и. м. 7 l	и. м.	н. м. 9 52		k Geminorum	5	р. н. м. 18 8 50 р. м. 9 40 ,,	Dark Bright		
6 11	15 3 15 19	7 18 7 34	1 45 1 25	10 10 10 28	Are not visible, Jupiter being too near to the Sun.	Zeta 3 Libræ	6	28 7 48 P. M. 8 38 ,,	Dark Bright		
16 21	15 34 15 48	7 49 8 3	1 2 0 30	10 23 10 52 11 51		Zeta 4 Libræ	6	28 9 4 P. M. 10 15 "	Dark Bright -		
26 31	16 1 16 11	8 16 8 26	constant	light, but Twilight		Chi Ophiuchi	5	29 9 46 P. M. 10 4 "	Full Moon nearly		
May	5d. 8h. P.M.,	the 2nd, 3r	d, and the 41	th Satellites	of Jupiterare near together, and W. of the Pla	anet: the 1st Satellite a	t the	same time is E. and nea	r the Planet.		

TIMES OF CHANGES OF THE MOON,		RIC	HT ASC	ENSIONS	AND D	ECLINA						
And when she is at her greatest distance	MER	CURY.	VEN	lus.	MA	RS.	JUPI	TER.	SAT	URN.	URA	NUS,
(Apogee), or at her least distance (Perigee), from the Earth in each Lunation.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion Soutb	Right Ascension	Declina- tion North.
LAST QUARTER 7D. 10u. 49m. p.m.	0h.55m	-	4h.45m		22h. 0m		5h, 6m		22h.51m.	90 5/	0h. 59ra	5° 37′
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FULL MOON 30 2 46 A.M. 16 Perigee 11D. At Midnight 21	2 13 2 47	10 55 14 19	6 3 6 29	25 20 25 18	22 41 22 55	10 22 9 6	5 20 5 25	22 58	22 55 22 56	8 44 8 38	1 2	5 54 59
APOGEE 23 9 P.M. 26	3 - 25	17 45	6 55	24 58	23 8	7 50	5 30	23 2	22 57	8 33	1 3	6 4

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Map Anniversary.

THE RESTORATION OF KING CHARLES II.

THE RESTORATION OF KING CHARLES II.

THE RESTORATION OF KING CHARLES II.

Is important event in our national history has been so minutely described by the dunits of the time, and their accounts have been so other quoted, that we shall content ourselves with chronicling a few of the leading details.

Pepys, the quaint and garrulous Secretary of the Admiratly, has left us the liveliest record of the incidents immediately preceding the Restoration. On this occasion he appears to have accompanied Sir Edward Montagu, afterwards Early of Sandwich, as secretary, in the fleet which brought home the King. When the House of Commons voted his Restoration, they also voted that £50,000, "to the Sovereign for the supply of his immediate necessities; and how gretarly he stood in need of this supply may be gathered from the following entry of Pepys, under May 17, 1660: "This afternoon Mr. Edward Pickering told me in what a sand poor condition for clothes and money the King was, and all his attendants, when he came to him first from my lord, their chiles not being worth forty skilings, the best of them; and how overgish, but there was none. About noon (though the brigantine that the King was when Sir J. Grenville brought him some money—so joyful that he called the Princess Roya (Mary, eldest daughter of Charles 1.) and the Duke of York to look upon it, as it lay in the portmanteaus hefore it was taken out."

Admiral Sir Edward Montagu had received orders from the Council of Parliament to bring over the King, and accordingly he sailed for the Hague, where, on the 21st of May, Charles and his swite were received on board Montagu's shooting of gans;" and after dinner the fleet weighted anchor, and set sail preceding day. The King entered London on his hirthday, May the 29th, how the heart of the staunch Royalist must have then leady to the preceding day. The King entered London on his hirthday, May the 29th, how the heart of the staunch Royalist must have then leady to the preceding day. The King entered London on his hirthday, May the 29th, how the heart of the stau

r KING CHARLES II.

his feet that he could scarce stir; yet he was forced to run away from a miller and other company that took them for rogues." On the same evening Pepys heard some of the suite "talking of more of the King's difficulties, as how he was tain to eat a piece of bread and cheese out of a poor body's pocket." &c.

On the 25th Charles landed at Dover; "the King and the two Dukes (of York and Gloucester) did eat their breakfast before they went, and there being nothing but ship's diet they eat of nothing else but peas and ports, and boiled beef." Pepys continues, "Dr. Clerke, who eat with me, told me how the King had given £50 to Mr. Shepley, for my lord's servants, and £500 among kenghts, but there was none. About noon (though the hrigantine that Beale made was then ready to carry him), yet he, the King, would go in my lord's barge with the two dukes. Our captain steered, and my lord went along bare with him. I wcnt, and Mr. Munnsell, and one of the King's footmen, and a dog that the King loved, in a boat by onrselves, and so got on shore when the King did, who was received by General Monk with all imaginable love and respect at his entrance upon the land at Dover," where he did not stay, but got into "stately coach there set for him, and so away through the town towards Canterbury."

MAY.

MAY.

MAY is proverbially the month of flowers. The hawthorn, the blackthorn or sloe, the horse chestnut, and many other ornamental trees and shrubs, are now in all their beauty; and almost innumerable herbaceous plants are in full flower. Among the most conspicuous of these is the lady-smock (Cardanine pratensis), which grows in such profusion in moist meadows, near water, that it looks, at a little distance, like linen laid out to bleach; and hence its common English name. The marsh marigold, with its golden yellow flowers, is very abundant in marshy places, in this month; and Jack-by-the-hedge—a plant which has a strong flavour of garlic, and clusters of cruciferous white flowers—is found abundantly in the hedge banks, and affords a useful vegetable to those who like its flavour. The cotton grass (Eriophorum vaqinatum) produces its downy seed in this month, and the places where it abounds look, at a little distance, as if covered with snow. In the gardens, the lilac, the laburnum, and the wistaria are in flower among the trees; while tulips, anemones, various kinds of ranunculus, and many other beautiful flowers, decorate the beds. Towards the close of the month, several curious wild flowers may be found, one of the most remarkable of which is that called Herb Paris (Paris quadrifolia). This plant, in



HERB PARIS.

some parts of the country, is called one-berry, or true-love, from its fruit being a single purple berry, growing in the centre of a green-spreading calyx. The flowers are green, and of no beauty. The plant is only found in sheltered woody spots, and it is generally considered poisonous.

Beneath the shade,
A beauteous berb, so rare, that all the woods
For far and near sround, cannot produce
Its like, shoots upright; from the stalk
Four pointed leaves, luxuriant, smooth, diverge,
Crown'd with a berry of deep purple hue.

GRAHAME.

Another poisonous plant, which is found in great abundance at this season, is the wild chervil, also called the May-weed, or cow-parsley. It is an umbelliferous plant, with white flowers, which, Lees tells us, it produces in such abundance, as often to "completely cover and whiten over whole fields, especially in the vicinity of coppiees." The white-rot, or marsh-penny wort (Hydrocotyle vulgars), and the red rattle (Pedicularis sylvatica), are found in boggy places. The common wallflower, and the curious little plant called the wandering ssilor, or ivy-leaved snapdragon, grow on walls; and the greater celandine (Chelidonium maqius) is generally found in country churchyards. This latter plant has yellow flowers and bluish-green leaves, and, when broken, its juice is yellow and glutinous. It is said, when diluted with milk, to remove white specks from the eyes; and, formerly, it was supposed to be used by swallows to make their young see, as it was supposed that the young birds, when first hatched, were blind. The plant is still called swallow-wort in many parts of the country, in allusion to this superstition; though, in the north, another plant is known by that name. Among the water plants, the fringed buckbean (Menyanthes trifoliata) is conspicuous, from its beautiful yellow flowers; and the water crowfoot, from its star-like flowers of silvery white. Several kinds of orchis are in flower during this month. this month.

this month.

Birds are particularly abundant in the month of May, and nearly every bush resounds with their notes. It is indeed, perhaps, in this month that the songs of wild birds are heard in their greatest perfection; and those who are interested in the subject will be amused to find what very different sounds the same birds can produce. The call note of each bird, for instance, is quite distinct from its sharp chattering note of fear; and both, again, are quite different from the full mediculation song of the male while the female is sitting on her nest. The willow warbler, which is generally heard in this month is one of the few birds that sings as it flies. It builds its nest on the ground, and the nest itself is so oddly shaped that in some parts of the country it is called an oven.

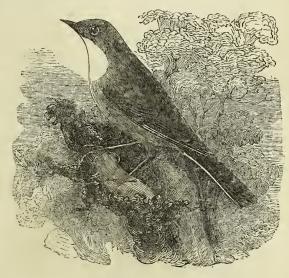
The nightingale sings through the greater part of the month of May: but.

shaped that in some parts of the country it is called an oven.

The nightingale sings through the greater part of the month of May; but, towards the close of the month, the female makes her nest, generally of oak leaves lined with dry grass, and places it on the ground, among materials of the same nature as those of which it is composed, so that it can scarcely be seen. The female lays four or five eggs, which are of a dark brown or dusky green; and, as soon as tbese eggs are hatched, the male ceases to sing; and, instead of doing so, makes a fearful noise like the croaking of a frog. "The croaking of the nightingale, at the end of May, and in June," says Knapp, "is not occasioned by the loss of voice; but by a change of note—a change of object. His song ceases when his mate has batched her brood; vigilance, anxiety, caution, now succeed to harmony, and his croak is the hush, the warning of danger or suspicion, to the infant charge and the mother-bird."

The sharp shrill call of the whitethroat is generally heard early in May, and soon after, its proper song. It is a lively and interesting little bird, with a

very sweet, clear, and loud song. It lives principally upon insects, though it is sometimes found to attack cherries, currants, strawberries, and other soft juicy fruits. It is said to be easily caught in a trap baited with a living caterpillar, a common house fly, or a butterfly. When kept in a cage, it should have some fine gravel in the bottom, and plenty of water inside, to allow it to wash, which it will do two or three times a day.



THE COMMON WHITETHROAT.

During the spring, the thrush is heard nearly all day, but towards the end of May it sings principally in the morning and evening; and sometimes, it continues its song all night. It has been observed, indeed, that the thrush dislikes hot, dry weather, as much as the blackbird; and it is well known that the blackbird always sings in wet weather, and particularly in a thunder-storm. The blackbird sings early in the morning, and late in the evening, but not so late as the thrush. The woodlark and the sedge-warbler also sing in the night, during the hot weather of summer, and the hedge-sparrow and the cuckoo have been heard to call as early as three o'clock in the morning. The turtle-dove is generally heard first in the woods, in May; and about the same time is first seen the curious bird called the sandpiper or marine snipe, and also, sometimes, the pigmy curlew, from its singular and somewhat monotonous cry. sometimes, the pigmy curlew, from its singular and somewhat monotonous cry. This bird is elegant in its form, with very long slender legs, and a long, slender, and slightly curved beak. These birds are remarkable for a change of colour, in their feathers, which is produced by a partial moult in summer; but this elegant summer plunage falls off, and the bird resumes its ordinary feathers in autumn. The sandpiper is only found near the sea, as its food consists of the small crabs and pullivations of the single it foliate in the search is the worse of the small crabs The sandpiper is only found near the sea, as its food consists of the small crabs and mollnscous animals it finds in the sand, just on the verge of the waves. The water-hen or moor-hen (Gallinula chloropus), builds her nest about this time. The following interesting account of a water-hen's attachment to her young is related in Mr. Waterton's delightful Essays on Natural History.—"In 1820, I was helping a man to stub some large willows near the water's edge. There was a water-hen's nest at the root of one of them. It had seven eggs in it. I broke two of them, and saw that they contained embryo chicks. The labourer took up part of the nest, with the remaining five eggs in it, and placed it on the ground about three yards from the spot where we had found it. We continued in the same place for some hours afterwards, working at the willows. In the evening, when when we went away, the old water-hen came back to the nest. Having no more occasion for the labourer in that place, I took the boat myself the next morning, and saw the water-hen sitting on the nest. On appreaching the place, I observed that she had collected a considerable quantity of grass and weeds, and that she had collected a considerable quantity of grass and weeds, and that she had put them all around the nest. A week after this I went to watch her, and saw she had hatched; and, as I drew nearer to her, she went into the water with the five little ones along with her."

The wireworm is the larva of a beetle; and in general, when a whitish-look-

The wireworm is the larva of a beetle; and in general, when a whitish-look

The wireworm is the larva of a beetle; and in general, when a whitish-looking grub is found buried in the ground, it may be presumed to be the larva of some destructive kind of beetle, and should be destroyed.

Gloworms are very abundant in this month, and the female may always be detected at night by her light, though by day she can hardly be distinguished from a woodlouse. The male insect has wings and no light. It is properly a kind of beetle, and it was supposed to live entirely upon vegetable matter till a few years ago, when a French naturalist who had takeu the larvæ of some glow-worms to watch their habits, accidentally gave them a dead slug among the leaves with which he usually fed them. The next morning, when he went to look at his glow-worms, they were nowhere to be found. On turning over the leaves, however, he found, to his great surprise, that they had buried themselves in the body of the slug; and he afterwards found that his insects would eat a dead slug every day. A live snall was afterwards put to the same larvæ, and after a long battle they succeeded in killing it and finally devouring it.

vouring it.

The ephemera or Mayflies appear towards the latter end of this month. These little creatures, it is well-known, live as files only one day; but they pass two or threo years in their larvæ state. They undergo their transformations buried in the carth on the sides of ponds, the entrance to their habitation being below the surface of the water. On a warm evening towards the end of May, about sunset, these insects burst from the bank that has sheltered them, and rise in incredible numbers into the air, casting off the exuviæ or skins which had enveloped them, which fall as a shower of snow as the insects rise. In less than two hours the female insects heve laid their eggs, which are about eight humdred in number. These eggs are cariously glued together, so as to form two little packets, each about a quarter of an inch long, and as soon as they are laid they are deposited in the water by their parent, who dies as soon as she has performed her task.



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18	F	Battle of Waterloo	3 4	48	17	23 25	9	42	4	32	11 11	1		5		5 25	5 45	0 38	169
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23	W	Midsummer Eve	3 4	58	19	23 27	2	55	8	7	0 44	1 4		10		9 33	10 4	1 43	174
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JUNE.

THE Moon rises before midnight between the 1st and the 4th, and after midnight, and before sunrise from the 5th to the 12th. She sets before midnight till the 20th. On the 1st and 2nd, she is in Aquila; on the 3rd and 4th, in Aquiarius. On the 6th, she rises nearly under the western pair of stars forming the square of Pegasus, and at 4h. 6m. A.M., she enters her last quarter; on the same day at 1lh. P.M., she is on the Equator and moving N., and in the constellation of Pisces. On the 7th, she is under the square of Pegasus, but nearer to the Eastern pair of stars than to the Western. On the 8th and 9th, she is in Pisces; on the 10th, in Aries, on the 11th and 12th, in Taurus. On the 13th, at 0h. 52m. A.M., is New Moon, but without an e clipse, as she is nearly 5° from the line joining the Sun and Earth. On the 14th, she is in Gemini, on the 15th and 16th in Cancer. On the evening of the 16th, her crescent will be seen in the W. after sun-set. From the 17th to the 19th, she is in Leo or Sextans. On the 17th, she is moving towards a point 5° S. of Regulus, which star she will have passed before rising towards a point 5° S. of Regulus, which star she will have passed before rising towards a point 5° S. of Regulus, which star she will have passed before rising towards and evidently directing her course some degs. N. of Spica Virginis. From the 20th to the 23rd, she is in Virgo; on the 21st, she is N.W. of Spica Virginis; before sunset on the 23rd, she will have passed it; and during the night she is N.E., and receding from it. On the 24th and 25th, she is in Libra, and directing her course to a point several deg. N. of Antares. On the 26th and 27th, she is in Ophiuchus; on the former day she crosses the W. branch of the Milky Way; and before sunset on the 23rd, she will have passed the E. branch; being on the 28th and 29th, in Aquila. On the 28th, at 1h. 23m. P.M., she will be full, but without eclipse, as she is 5° from the lith to the 25th, in that of Gemini, and on the last day she is in Aquarius.

MERCHAF, from THE MOON rises before midnight between the 1st and the 4th, and after mid

under the three stars in Aquila, but at a considerable distance from them; and on the last day she is in Aquarius.

Merchar, from the 1st to the 11th, is in the constellation of Taurus; from the 11th to the 25th, in that of Gemini, and on the latter day passes into Cancer.

On the 1st, he sets at 7th 43m. p.M., at the N.W. by N. point of the horizon, before the Sun sets. On the 4th, he sets at the same timo as the Sun; on the 6th, he sets at 8h. 25m. p.M., being 16m. after the Sun has set, and from this time to the end of the month he is favourably situated for observation after sunset, particularly from the 20th. On the 11th, he sets at 9h. 2m. p.M.; on the 16th, at 9h. 28m. p.M.; on the 16th, at 9h. 42m. p.M.; and on the 26th, at 9h. 42m. p.M.; and the N.W.; and after the 22nd, near the N.W. by N.

He souths on the 1st, at 11h. 48m. A.M., at an altitude of 60°; on the 15th, at 0h. 54m. at an altitude of 64°; and on the last day at 1h. 46m. A.M., at an altitude of 59°. On the 6th, he is 4° S.S.W. of Beta Tauri. On the 7th day, he is 4° S of the same star. On the 8th, he is 4° S.E. of that star. On the 9th, 10th, and 11th, he is near to Jupiter, being N.W. of him on the 9th; about 1½° N. of him on the 10th; and N.E. of him on the 11th, and nearly in the centre of the Milky Way. On the 10th he is also in a line joining the Pole Star and Alpha Orionis, being 17° N. of the latter star, and 7° E. of Beta Tauri; his course being towards Castor and Pollux. On the 20th, Mercury, Castor and Pollux, form a small triangle, the Planet occupying the S.W. angle, and distant 8° from Castor, and 7° from Pollux. On the 22nd, he is 8° due S. of Castor; on the 24th, he is 4° due S. of Pollux.

Belative Structure of the month he is moving eastward from those stars; and at the end he is 13° S.S.E. of Pollux.

Belative Structure of the month he is moving eastward from those stars; and at the end he is 13° S.S.E. of Pollux.

RELATIVE SITUATION OF BETA, TAURI, MERCURY AND JUPITER ON JUNE 9.

Beta Tauri

Mercury

O' The place of Jupiler.

RELATIVE SITUATION OF CASTOR, POLLUX AND MERCURY ON JUNE 21.





Mercury

Mercury is drawn on a scale of 40" to an inch. The place of Jupiter is only Indicated for the same reason as that assigned in last month. By reference to the engraving in the preceding month it will be seen how very nearly Mercury is in the position that Venus was at that time.

Venus will pass from the constellation Gemini into that of Cancer on the 4th, and from the latter into Leo on the 23rd day.

On the 1st, sbe souths at 2h. 48m. P.M., at the altitude of 62°; and sets at 1 lh. 10m. P.M. midway between the N.W. by N. and the N.W. From the beginning of the year to this day, Venus has sat later and later every night; after this time

she begins to set earlier. On the 15th, she souths at 3h. 0m. p.m., at the altitude of 60°; and sets at 11h. 0m. p.m., in the N.W., by N. On the last day she souths at 3h. 7m. p.m. at the altitude of 54°; and sets at 10h. 34m. p.m. nearly midway between the W.N.W. and N.W. by N. On the 1st, she is situated in a line from the Pole Star, passing midway between Castor and Pollux, and she is distant from Castor 8°, and from Pollux 4°. On the 2nd, she is in a line from the Pole Star to Pollux produced 4°, and after this time she is moving from these stars towards Regulius and during the whole of

time she is moving from these stars towards Regulus, and during the whole of the remainder of the month she is much brighter than any star near her, and she may be readily distinguished by her brightness. On the 25th, she is in a line joining the Pole Star and Alpha Hydræ, being 26° N. of the latter star, and about 10° W. of Regulus.

10° W. of feeguins.

Venus is in the neighbourhood of the Moon during the evenings of the 16th and 17th; on the former she is N E. of the Moon by about 10°; and on the latter she is N.W. at about the same distance.

MARS will be in the constellation of Pisces till the 14th, on which day he passes

into that of Cetus.

into that of Cetus.

He rises on the 1st, at the E. by S.; and on the last day near the E. points of the horizon, and between those points during the month. On the 1st, at 1h. 16m. A.M.; on the 15th, at 0h. 38m. A.M.; on the 28th, he rises twice on the same day, viz., at 0h. 2m. A.M., and at 1lh. 59m. P.M.; and on the last day he rises at 1lh. 54m. P.M. He souths on the 1st and last days at 6h. 46m., and 6h. 5m. A.M., at the altitude of 32°, and 40° respectively.

On the 1st, an isosceles triangle is formed by Mars, Alpha Pegasi, and Gamma Pegasi. (The two southern stars forming the square of Persons) the Plumet heing

Pegasi, (the two southern stars forming the square of Pegasus), the Planet being 22° distant from either star. On the 16th, he is situated in a line joining Alpha

22° distant from either star. On the 16th, he is situated in a line Joining Alpha Andromedæ and Gamma Pegasi, (the two eastern stars forming the square of Pegasus) being 31° distance from Alpha Andromedæ, and 17° from Gamma Pegasi; after this time the planet continues to move eastward. The Moon is W. of him on the 6th, and E. on the 7th.

JUPITER, on the 11th, will pass from the constellation Taurus to that of Gemini. He sets about 4° N. of the N.W. by N. all the month; on the 1st, at 91, 12m. P.M.; on the 20th, at 8h. 16m. P.M. being very nearly at the same time as the Sun sets; and after this day he sets before the Sun. After the 20th day he rises before the Sun, and by the end of the month, the time of his rising precedes that of the Sun by about half an hour.

He souths on the 1st day at 01. 58m. A.M.; on the 20th, at noon; and on the last day at 11h. 32m. P.M. During the mouth he is near the Sun, and this is the worst month during the year for observing him.

last day at 11h. 32m. P.M. During the mouth he is near the Sun, and this is the worst month during the year for observing him.

SATURN rises at about 2°S of the E. by S, throughout the month. On the 1st day, at 11h. 2m. A.M.; on the 16th, he rises twice on the same day, viz., at 0h. 3m. A.M., and at 11h. 59m. P.M.; and on the last day he rises at 11h. 4m. P.M. He souths at an altitude of 30°; on the 1st day at 6h. 21m. A.M.; and on the last day at 4h. 25m. A.M. His relative position among the stars is nearly the same throughout the month, and he is situated as in May. He is 5°S. of the Moon on the 6th, at 3h. 40m. A.M.

URANUS rises at about 1°S. of E. by N.; on the 1st day, at 1h. 53m. A.M.; on the 30th day, he rises twice in the same day, at 0h. 0m. A.M., and again at 11h. 56m. P.M. He souths on the 15th day, at 7h. 34m. A.M., at an altitude of 45°.

TIMES OF THE SOUTHING, &c. OF THE PRINCIPAL FIXED STARS, WHICH PASS THE MERIDIAN BEFORE MIDNIGHT.

Stare' Names,	Magnitude.	ing du	f south- ring the	ahove the	Sett	ing.
	Magn	lst.	day.	S (South) N (North)	Number of hours from southing.	Point of the horizon.
Spica Virginis Arcturus	I 1	n. 8 9	м. 38 30	28°s 58s	и. 5 7 ³ / ₄	Near W. by S. N.W. by W.
a Coronæ Borealis a Serpentis	2 2	10 10	49 58	66s 45s	8½ 6½	Near N.W. W. by N.
β Scorpii Antares	2	11 11	18 41	19s 12s	4½ 3½	S.W. by W. S.W

As the stars pass the meridian earlier, on every succeeding evening than they did on the preceding evening, by four minutes nearly. To find the time of passage on any day of any month, it is merely necessary to subtract from the times of passage as inserted in each month for the first day, a portion of time corresponding to the day of the month diminished by one, multiplied by four minutes. Example.—Required the time of Spica Virginis Southing or passing the Meridian on the 11th day of June.

Time of passage on the 1st day from the above table is 8 38 10 Multiplied by 4 is 40; therefore subtract 40

The difference is the time of Spica Virginis southing on the 7 58

Days of the Month.	Length of Day, or number of hours he-	Number of hours and minutes the day has increased sincethe Shortest	Time of Day-break, or beginning Time of Twilight	JUPITER'S SATELLITES. Eclipses of	OCCULTAT	TIONS OF STARS BY THE MOON.
the	tween Sun- rise and Sunset.	Day. Decreased since the Longest Day	of Twilight. ending.		Names of the Stars.	Times of disappearance of the and re-appearance of the Star. At the dark of the dark of the dark of the Moon.
1 6 11 16 21 26 30	H. M. 16 13 16 21 16 28 16 32 16 34 16 32 16 30	H. M. 8 28 8 36 8 43 8 47 8 49 0 2 0 4	No real night, but Constant Twilight.	Are not visible, Jupiter being too near to the Sun.	Rhol Sagittarii	5 \ \begin{pmatrix} pma

11th day nearly

							41				/		
TIMES OF CHANGES OF THE MOON.				RIGH	T ASCEN	SIONS A	ND DEC	LINATIO	NS OF T	HE PLA	NETS.		
And when she is at her greatest distance	변설	MERC	CURY.	VE	US.	MA	RS.	JUPI	TER.	SAT	URN.	URA	NUS.
(Apogee), or at her least distance (Peri-	lays of the Mouth.	Right	Declina-	Right	Declina-	Right	Declina-	Right	Declina-	Right	Declina-	Right Ascension	Declina- tion
gee), from the Earth in each Lunation.	"	Ascension	North.	Ascension	North.	Ascension	South.	Ascension	North.	Ascension	South.	Ascension	North.
LAST QUARTER 6D. 4H. 6M. A.M. New Moon 13 0 52 A.M.	1	4h.16m	21° 29′	7h.25m		23h.24m		5h. 35m		22h.58m		1h. 4m	
FIRST QUARTER 20 7 32 P.M.	6	5 3 5 50	23 47 25 2	7 50 8 14		23 37 23 50	4 59 3 42	5 40		22 59 22 59	8 26 8 25	1 5	6 14 6 18
FULL MOON 28 1 23 P.M. PERIGEE 8 1 A.M.	16 21	6 35 7 16	25 8 24 16	8 37	20 42 19 6	0 2	2 25	5 50	23 14 23 16	23 0	8 24 8 24	1 6	6 21
APOGEE 20 4 P.M.	26	7 52	22 40	9 22	19 6 17 19	0 27	0 6N	6 0		23 0	8 25	i	6 27

June Anniversary.



THE FIELD OF WATERLOO.

THE DAY OF WATERLOO. "THE FIGHT AND THE FEAST OF VICTORY." JUNE 18.

"Waterloo is a substantial and considerable village of clean, good, and respectable houses. St. Jesn is two miles heyond, and close to the celebrated field. From old professional, as well as patriotic feeling, I chose Sergeant Cottou, 1ste of the 10th Hussars, as my guide. He is an intelligent, spare, active, good-looking fellow, of filty-three years of age. It is fanciful to say that the Field of Waterloo seems marked out as the acene of a great action. It is very far form a strong position, though no doubt the hest the country afforded. A genity rising ground, not steep enough in any part to prevent a rush of infantry at double quick time, except in the dell on the left of the road, near La Haie Sainte; and along the creat of the hill a scrabby hedge and low bank, fencing a narrow country road. This was all! excepting Le Haie Sainte and immortal Hongoumont! Tbat ageneral should have cainly and confidently waited on such a spot to receive the attack of a superior army, commanded by the Conqueror of Europe, the great master and regenerator of modern warfare, amazingly out-numbering him in cavalry—for which arm the ground was most favourable—and with 90 guns more than his own!—that he should have done this, is, perhaps, the greatest compliment that has ever yet been paid to any army."

Even on this day
There's not a corn-ear yellowing in the Sun
—That spreads its summer lustre on the plains
Where Death once gleaned his harvest,—that shall start
Tothe old hattle's echo!

Not a voice From the far vineyards and tree-hlossom'd farms, That cleaves unto it its Past of hlood and fire!

Not in the sweet dreams of the Maiden's love, Or still contentment of the Peasant's thought, Stirs the fear-presence of the perish'd War!

With them,—and by the soil on which it grew— The Earth that 'neath its desolation groaned— The Sky that saw its crimson tinge the cloud— The storm that swept that mighty Park of Battle, And winged its triumph-thunders round the world Is as a vanished terror—smoothed away With its dark tracery, from the human heart, By forty smiling years of peaceful love!

So Waterloo is silent in the sun! Its fields have scarce a memory! hnt there he Some deep-stirred haunts of Earth—some well-marked spots, Into whose heart the very word is graved With axe of diamond and with sword of fire!

Europe hath murmured blessings to that name Which Peace hath sanctified; and as each year Brings round the day which saw its glory dawn May murmur blessings still; nay, all the world May see it flash across its memory, One of the meteor-marvels of its life!

But for the earth-spots which its spirit haunts
—Steeped in its gloom or starr'd with its renown
This day hath pageantry of double guise,
And wakes a grave or crowns a festival!
In France—deep shrined within its Gallic heart—
Under a splendid Hospital of War,
Temple of warriors' tomhs!—swathed in the pomp
And gorgeonsness of a proud land's last hommage!
Within a Palace vault!—in mouldering state—
Lie the hleached henes of our dead Emperor!
The June sun of to-day has darted light
Electric through the regions of the dead;
And all Napoleon's earth-quaked spirit there
Is gazing on fiame lettered Waterloo!

There is a roaring tempest in that tomb!
The hlood is as a river on its floor!
Its marble heart is filled with flame and rage—
Hoarse thunder hooms—and clashed swords blend with shricks—
And as the vision swells its terrible strife,
The grave seemed shattered by that hurst of "Charge!"
Till there,—amid the ruins of his war,
The madden'd Conqueror—conquered—shouts to die!

'Tis vain! the thought escaped his soul on earth, And now it finds its palsy in the tomb!

His spirit may not die, but it lives hack
Into its own survivance—to the time
When the chain'd Exile wore away a life
In sad inglorious fretfulness of heart,
Weaving a crust of canker for his soul,
Until the lonely island where he stood
Felt the calm death wind winging to her shores,
And, in her pity, grew the willow-mourner
That wept so long ahove Napoleon's clay!

So in that Isle, which was the grave of Glory, And in that pomp-emblazoned vault of France, Are two dark grieving places of the Earth, That cannot hear the light of "Waterloo!"

The third mark'd spot is our immortal England, Whose heart,—thrill'd wildly with a nation's joy— Leaps to the proud memorials of her fame, And in the lap of Peace enshrines the war That gave it wings and welcome!

Well, she warms Her lusty spirit in this Sun of June, That in the dazzle of its glory hathes The names of Wellington and Waterloo!

JUNE.

June is pre-eminently the month for flowers. The wild roses and honeysuckles are abundant in every hedge. In the woods, the butterfly orchis, and numerous other curious nearly allied plants, are to be found; while the beautiful bee orchis hangs from the limestone rocks its curiously shaped flowers, quivering in the air, as if they were really the insects they represent. In boggy places, the butterwort is found, with its oily leaves covered with the remains of very small flies; and the sun-dew, with its curious leaves looking as if fringed with gems. In wetter places will be found the water violet, with its pretty pink flowers and finely-cut leaves; the forget-me-not; and the brooklime (Veronica Beccabunga), which generally produces its clusters of bright blue flowers on the banks of a clear, shallow brook. Near the sea, the yellow horned-poppy has a peculiarly brilliant appearance, and its sea-green leaves look as though they had actually taken their colour from the spray which washes over them. The sea milkwort, the sea spurge, and the eryngo or sea holly, are all beautiful plants which adorn the sea shore during the month of June.

the sea shore during the month of June.

In this month, a great number of the ferns unrol their fronds; for it must be observed that ferns do not form buds like other plants, but that their leaves, or fronds, as they are properly called, when they first appear, are rolled up in a circular form, and gradually unfold. It was formerly believed that fern seed, if gathered on the eve of the Festival of St. John the Baptist (the 23rd of June), would make the bearcr invisible. Ferns have no visible flowers, and their seeds are produced in clusters, called sori, on the backs of the leaves. Each sorus contains numerous theæ, and each theca encloses almost innumerable spores or seeds. The curious plant called the flowering fern (Osmunda regalis), has the sort, which are of a deep brown, growing on a branched spike which rises above the fronds like a spike of flowers. There are numerous other kinds of fern, all remarkable for some interesting peculiarity, but which it would take too much space to enumerate here. When ferns grow in great masses, as in Epping Forest, and Hagley Park, in Worcestershire, the effect is magnificent, particularly when the fronds are waved to and fro by the wind. The popples are all in flower at this season, particularly the large white, or opium-bearing poppy. When the petals of the flowers of this species fall, the seed vessel will be found green and



MALE FERN.

succulent; and, if it is slightly wounded, or rather scarred with a sharp knife, a milky juice will appear; and, if this is exposed to the sun till it hardens, it becomes opium. The white water lily, which has been called the queen of British flowers, is in perfection in this month. The leaves of this plant are large and handsome, and they float on the surface of the water. The flowers, if closely examined, will be found curious in a botanical point of view, from the manner in which the calyx, the corolla, and the petal-like stamens seem to change into each other. The common ycllow flag (Iris Pseud-acorus) is asplendid marsh plant at this season, and it was formerly believed always to unfold its blossoms on the 1st of June. Various other kinds of iris ornament the gardens. The genus iris is also curious to a botanist, from the stigma of each flower spreading out into three fringed petals, under each of which a stamen lies hidden. The grasses are very interesting in June, and may be studied at this season to the best advantage. Those who have not studied the subject will be surprised to hear that there are nearly fifteen hundred different species of grasses, and that, of these, above three hundred kinds are common in pasture fields in Great Britain. Of course, the chief difference between these kinds consists in the seeds; but, when closely examined, even the leaves will be found decidedly distinct. The most beautiful of the British grasses are the feather grass (Sitiap pennada), and the quaking grass (Brita media). St. John's Day, the 24th of June. The scarlet pimpernel or shepherd's weather-glass is in flower at this season, and it takes its popular English name from the fact which has been often observed, that, if its flowers will not unfold in the morning, there is sure to be rain in the course of the day.

In this month, comparatively few birds are heard in sone, for, as in most cases

In this month, comparatively few birds are heard in song, for, as in most cases the young birds are hatched, the parents, both male and female, are too much occupied in attending to them to sing. In fact, the song of birds seems generally confined to the periods of pairing and hatching, as, during the latter time, the male sings as if to amuse the female while on the nest. Many birds may, however, be seen in this month; and the habits of the shrike, or butcher-bird, are so curious, as to make it well deserving attention. It is a migratory bird, seldom appearing in England till the latter end of May, and it departs early in September. It is a solitary bird, being generally found alone; and when it has killed its prey, which consists of small birds, insects, and sometimes field mice, it fixes the creature it has killed to a thorn, and then tears it in pieces with its bill. "When coming upon a bird or mouse which it has pursued for some distance, it settles its feet at the moment it strikes with its bill the cranium of the object pursued." "All small birds," says Mr. Knapp, "have an antipathy to the shrike, betray anger, and utter the moun of danger when it approaches their nests. I have often heard this signal of distress, and, cautiously approaching to learn the cause, have frequently found that this butcher-bird occasioned it. They will mob, attack, and drive it away, as they do the owl, as if fully acquainted with its plundering propensities." White mentions that a friend of his, who shot a butcher-bird, told him "that it might easily have escaped his notice, had not the outcries and chatterings of the whitethroats and other small birds drawn his

attention to the bush where it was." The redstart and the pied fly-catcher are sometimes heard singing in June; but the latter seldom longer than the first week of that month. Some birds build their nests in this month, and the commonest of these is the goldfinch. This bird makes a very elegant nest, composed of various kinds of grass, mosses, and lichens, all carefully woven together, so that not a single projecting particle is seen. The nest is then lined with wool, hair covered with thistle down, or with the cotton that falls from the catkins of the willow and the poplar. "The goldfinch," says Rennle, "is more neat in the execution of its felting than the chaffinch, though I have seen several of the nests not look so pretty; for the goldfinch's is rendered more formal, and less richly varied in colouring, by the anxiety which the bird displays not to have a single leaf of moss or lichen projecting, all being smoothly felted with wool, which, in some measure, conceals the moss; whereas, in the chaffinch's nest, the lichen usually conceals the wool. In other respects, the two nests are much the same, as well as the eggs; those of the goldfinch having their white ground more commonly tinged with blne, and having fewer and rather brighter spots, which are dark in the centre, and shade off into a thinly spread purple colour."



The cnrious little fish called the sticklebacks (Gasterosteus aculeatus) are found in great abundance in June. They are small, and, if put in a glass, extremely beautiful, the back being red, and the sides of a brilliant green, shading into a slivery white. The fins on each side of the head are very large, and as fine as gossamer; they are in perpetual motion, and extremely beautiful. The male sticklebacks are very pugnacious; and, if several are put together in one glass, the strongest will kill the others. When kept singly, and supplied daily with fresh water, with duck weed or some kind of conferva, they will live a long time. A lady at Godalming kept one for several months, and she was very much amused to find that, whenever the sun was hot, he took the trouble to spread out the conferva with which he was furnished in the shape of an umbrella, near the surface of the water, so as to afford him shade, letting it sink to the bottom again when the sun went in. A battle was once observed between the pupa of a dragon fly and a stickleback. There was first an extraordinary motion in the water of the pond, as though a stone had been thrown into it; but on closer observation the pupa and the stickleback were observed struggling with each other, like two foes grappling in mortal combat. They alternately rose to the surface, and sank again, till at last the poor fish was overpowered, and the pupa of the dragon fly, having dragged it into the soft mud near the bank, was soon perceived sucking its blood. When sticklebacks fight with each other they use the sharp spines on their backs and the lower part of their bodies as weapons; and the bodies of those that are killed, If taken out and examined, will generally be found to be dreadfully lacerated. It is only the male sticklebacks that fight, and when one has gained the victory his body appears to swell out, the lower part becomes of a brilliant crimson, the upper part of as bright agreen, and the voc

Vipers are frequently found in woods during this month; and though their bite is venomous, it is said to be cured by taking abundance of common salad oil, and rubbing the wounded part with it. There are several kinds; but, as they differ only in colour, they are supposed to be only varities of one species. Vipers will bear a long fast, and one is said to have been kept in a box six months without food. It is asserted, indeed, that they will never eat while in confinement.

Among the insects of this month may be mentioned the green forester moth (Ino statices). The wings are semi-transparent, and the larger pair are of a brilliant green. The body is of a bright copper-colour; and the hind wings are brown. The moth is a very pretty one, and has a metallic lustre in the sun. It is common in many parts of England, but has never been found in Scotland. It is caterpillar looks like a greenish brown maggot; and its chrysalis is enclosed in a close cocoon, which is generally found fastened by a number of loose silky threads to the leaves of the common thrift. The caterpillars of the vapourer and tussock moths are generally found at this season. That of the vapourer moth is very handsome; it is dark grey, spotted with red on the sides, with a black mark down the back, having three reddish spots on it towards the tail, and four tufts of yellowish hair towards the head, and long fine black hairs growing from the sides of the head, the sides of the body, and over the tail. The female vapourer has very slight wings, and is incapable of flight; but the male is a dark brown moth. The female lays her eggs on the ourside of the ecoon in which she was inclosed in her pupa state. The caterpillar of the tussock moth is larger than the vapourer; the dorsal tufts are black, and the other hairs yellow. The male moth is of a bluish grey; and the female is furnished with wings. The gipsy moth, which has also a caterpillar furnished with tufts of hair, is often seen in this month. The male is brown, and the female whittsh—both marked with dark brown wavy lines. The caterpillars of the tiger moth are hairy, but the hairs are not disposed in tufts. One of these, which is extremely common, is called, in Scotland, the hairy worm, and it is very abundant at this season. The large blue butterfly (Polyonatx Arion) is often seen in this month, and in the beginning of July, on the cliffs at Dover, and in various other places. The female has a broad blackish margin to her wings; and both species have the beginning

The stag-beetle is one of the largest and strongest of the British insects: when put under a glass of moderate size, it will raise it with its horns. It is generally found in the daytime, concealed in the stump of an oak or an elm tree; but in the evening it begins to fly about with a peculiar humming noise. The larva is a large thick grub of a very pale yellow. It is generally found coiled up, but when stretched out to its full length, it measures nearly four inches. It is said to remain five or six years in a larva state, and when it has attained its full size, it forms a sort of cup or oval saucer in the earth, by moistening it with its glutinous saliva, and working it till the inside is quite smooth and hard. The grub then lays itself down in the cavity it has formed, and remains about a mouth in a torpid state, after which it changes its skin and becomes a pupa or chrysalis, rolling itself up in a ball of earth larger than a hen's egg, in which it les about three months, becoming a perfect iusect about the last week in June or the beginning of July. In its larva state it feeds upon decayed wood; but the perfect insect is said not only to feed on wood, but to attack the leaves of the oak.



	_						LION	HUNT.					
3.5	1	H .	1	SUN.		{i	MOON.	1			IOONLIGHT.	HIGH WATER	EQUA-
M	1 "	ANNIVERSARIES, OCCUR-		1	DECLI-	Rises.	1	SETS.	Before Sunrise.	e n	After Sunset.	AT LONUON BRIDGE	TION OUT
D	D	RENCES, FESTIVALS, &c.	RISES.	SETS.	NATION NORTH.	Afternoon	Souths.	Morning	O'Clock 1h. 2h. 3h.	Moons Age.	O'Clock 9h 10h 11h	Morning Afternoon	Add.
	.}	l	-		Deg. Min.	п. м.	и. м.		10. 20. 30.	. =	Su Ion. III.	Morning. Afternoon	
_	-	Sirius souths with the Sun : on	н. м.	н. м.	00 -		1	н. м. 7 23		18			3 22 182
1	Th	August 11th it rises with	3 49	8 17		9 54	Morning.			اعتناا		3 45 4 35	
2	F	the Sun. On this account the time between July 3rd	3 49	8 17	23 5	10 25	3 12	8 39		19	All to State State	4 30 4 50	3 33 183
		and August 11th is called	3 50	8 16	23 1	10 54	4 5	9 57		20		5 13 5 40	3 44 184
3	S	Dog Days	3 50	0 10	00 50	11 01						1	
4	S	5TH SUNDAY AFT.	3 51	8 16	22 50	11 21	4 58	11 15		21		6 0 6 25	3 55 185
5	M	TEINITY	3 52	8 16	22 51	11 51	5 49	Afternoon		0		6 55 7 20	4 6 186
0		Antares souths at 9h. 23m.	3 53	8 15	22 45	1	6 42	1 47		23		7 52 8 20	4 17 187
0	ΊÙ	P.M., 12 deg. high				Morning.							
7	W		354	8 15	22 39	0 21	7 34	2 59		24		8 57 9 30	4 27 188
8	Th	Becket Scorpii souths at 8h, 51m.	3 55	8 14	22 32	0 55	8 28	4 10		25		10 5 10 40	4 36 189
0	Th	2)	3 56	8 14	20 06	1 37	9 23	5 15		26		11 16 11 50	4 46 190
9	F	1815			22 20		3 20	0 10	Million Chr.				
10	S	1515	3 57	8 13	22 18	2 23	10 17	6 12		27		0 22	4 55 191
11	S	6TH SUNDAY AFT.	3 58	8 13	22 11	3 17	11 11	6 55		28		0 50 1 15	5 3 192
11		TRINITY	3 59		00 9	4 15		7 43				1 43 2 5	5 12 193
12	M	Lyræ souths at lih. 7m.	5 59	8 12	$\frac{22}{3}$	4 15	Afternoou	- 1				1 1 1	
13	Τυ	a Lyre souths at 11h. /m.	4 0	8 11	21 - 54	5 18	0 53	8 18		1	202 1000 1000 1000	2 30 2 50	5 19 194
1.1	W	α Ophiuchi souths at 9h. 58m	4 1	8 10	21 46	6 23	1 41	8 48		2	34///3////A	3 10 3 30	5 27 195
14	**	St. Swithin's Day		0 0	21 36	7 27	2 26	9 14		3		3 47 4 5	5 33 196
15	Tit		4 2								- 2700 Marin Sirin	1	
16	F	Beginning of the	4 3	8 8	$21 \ 27$	8 31	3 10	9 39		4		4 23 4 40	5 40 197
17	S	Hegira, or Mohammedan era in the year 622	1 4	8 7	21 - 17	9 33	3 53	10 2		5		4 58 5 15	5 45 198
		7TH S. AFT. TRIN.		8 6	91 7	10 37	4 35	10 95		6	111111111111111111111111111111111111111	5 35 5 50	5 51 199
18	S	The Suu rises N.E. by N., and	- 1		21 /			10 23		-			
19	M	sets N.W. by W.	4 - 6	8 5	20 56	11 38	5 17	10 47		7		6 10 6 30	5 55 200
20	To.	St. Margaret	4 8	8 4	$20 \ 45$	Afternoon	6 1	11 13		D		6 50 7 10	5 59 201
20	TIT	Aquile souths at 11h, 4cm			20 34	1 42	6 46	11 49		9		7 34 7 55	6 3 202
21	W	a P.M.		0				11 42		7.0			0 0 - 0
22	Tir	Mary Mugdalen	4 10	8 2	20 22	2 48	7 34	Morning		10		8 30 9 7	6 6 203
23	F	Sun enters Leo	4 111	8 0	20 - 11	3 50	8 24	0 15		11		9 40 10 13	6 8 204
	~	Aquilæ souths at 11h. 35m.	1 10	7 50	19 58	4 49	9 18	0 55		12		10 47 11 20	6 10 205
24	S	P.M. 47 deg. high	t 12	/ 50									
25	S	8TH SUNDAY AFT.	1 14	7 56	19 46	5 48	10 13	1 46		13		11 55	6 11 206
	$\widetilde{\mathrm{M}}$	Thinity-St. James	1 15	7 54	19 33	6 34	11 9	2 43		14		0 24 0 50	6 12 207
20	الطناء	Revolution in Paris	1 17	7 52		P 1 P		3 49	100	0		1 15 1 40	6 12 208
27	Tu	1830; lasted three days	i 1/	/ 33	19 19		Morning.	- 11					
28	W	1000; lasted three days	1 19	7 51	19 - 6	7 54	0 6	5 2		16		2 3 2 25	6 11 209
29	Тн	Aquilæ souths at 11h. 11m.	1 21	7 50	18 52	8 27	1 2	6 20		17		2 50 3 10	6 10 210
	F				18 38	8 57	1 58	7 41		18		3 30 3 50	6 . 8 211
30	_	Cygni souths at midnight,	4 23	النائك				9 50		10			
31	S	83 deg. high	4 24	47	18 23	9 26	2 52	0 39		19	HILLIER CA	4 15 4 35	6 6 212

It was formerly helicved, when Sirius or the great Dog Star and the Sun were at or near conjuction, that all sorts of evils took place, since it was said that Sirius made the "sea to boil; wine to become sour: dogs to go mad; and all creatures to languish." These fancies were wrong, and should now be entirely removed. The name of Dog Days is still kept amongst us, but the weather is seldom more sultry during their continuance than during some other parts of summer.

JULY.

JULY.

The Moon rises before midright till the 5th, and after midnight from the 6th. She sets before midright till the 21st, and after midnight from the 22nd. She is in Aquarius on the 1st and 2nd.; in Pisces on the 3rd, 4th, and 5th; on the 3rd, she is directly S. of the square of Pegasus. On the 6th and 7th she is in Aries, directing her course under the Pleiades, and towards the Hyades and Aldebaran. On the morning of the 9th, she will have passed it, and will be several degrees E. of that star, and passing above Rigcl. During the 8th, 9th, and 10th, she is in Taurus; on the 11th and 12th in Gemini: on the 12th at 11h. 24m. in the morning is New Moon, but without an eclipse, as she is 5 degrees from the line joining the Sun and the Earth. On the 13th she is in Cancer; on the 14th, 15th, 16th and 17th in Leo. After sun-set each evening of these days her crescent will be seen N. of W. On the 15th she is near Regulus. On the 17th, at 11h. p.m. she is on the Equator, moving S. From the 18th to the 20th, she is in Virgo, being near Spica Virginis on the 19th. On the 20th at 0h. 52m. p.m. she enters her last quarter. On the 21st and 22nd she is in Libra. On the 23rd and 24th she is in Ophiuchus, the star Antares being a few degrees S.W. of her on the 23d day; on the 24th, she is between the two portions of the Milky Way. On the 25th, 26th, and 27th she is in Aqualia. On the 27th at 10h. 8m. p.m. is Full Moon, but without an eclipse, as she is then 4 degrees from the line joining the Sun and the Earth. On the 28th and 29th she is in Aquarius, and in Pisces afterwards to the end of the month. On the 31st, at 11h. p.m. she is on the Equator and moving N. Meacuray will be in the constellation of Cancer till the 9th day, and in that of Leo after that time.

On the 1st he sets at 9h. 43m. p.m., being 1h. 26m, after the Sun has set. On

Leo after that time.

On the 1st he sets at 9h. 43m. p.m., being 1h. 26m. after the Sun has set. On the 6th he sets at 9h. 37m. p.m.; on the 11th, at 9h. 21m. p.m., the Sun having set 1h.8m. before; therefore, from the 1st to the 11th, the Planet is very favourably situated for observation, and during this time he sets at the N.W. by N. point of the horizon. On the 16th he sets at 9h. 3m. p.m., near the W.N.W; on the 21st at 8h. 41m. p.m.; on the 26tb at 8h. 17m. p.m. midway between W.N.W. and W. by N. And on the last day the Sun sets only 5 minutes before this Planet.

He souths on the 1st at 1h. 48m. p.m., at an altitude of 59°; on the 9th at 1h. 55m. p.m., at an altitude of 55°; and on the last day at 0h. 51m. p.m., at an altitude of 48°.

He is moving Eastward among the stars till the 24th, and Westward after that time.

During the first part of the month there are no bright stars near him; and he is moving from Castor and Pollux; on the 11th he is 24° S.E. of the latter star.

Venus will be in the constellation Leo till the 29th, and in that of Virgo after

from 5.4° to 48°. From the beginning of the year till this time the planet has southed later and later day by day; after the 15th she souths earlier and earlier day by day, and on the last day she souths at 2h. 59m. P.M., and at an altitude of 40°. Between the 1st and the 15th, she souths at 3h, 8m, P.M. at altitudes decreasing

of 40°.

On the 1st day she sets at 10h. 31m. P.M. near the W.N.W; on the 11th at 10h. 9m., midway between W.N.W. and W. by N.; on the 20th at 9b. 45m. at the W. by N., and on the last day at 9b. 12m. near the W. On July 5, during the evening, she is situated very near to Regulus, being about 1 degree N. of the star, and after this day she passes eastward from it. On the 7th she is 2° E. and of the same altitude as that star. After this time she is moving towards Spica Virginis. On the 19th she is in the line produced from the Pole Star through Alpha Ursa Majoris (one of the pointers, and the nearest to the Pole Star.) On the last day she is in a line joining the Pole Star and Beta Leonis, and at the distance of 15° South of this star. Venus is near the Moon during the evening of the 16th, being N.W. of her by 5°.

Mars will be in the constellation Cetus till the 8th, and from that time to the end of the month he is skirting the constellations of Pisces and Cetus, being alternately in the one and in the other.

nately in the one and in the other.

He rises near the E. at the beginning; near the E. by N. at the end, and between those points during the month; on the first day, at 11h. 51m, and on the last day, at 10h. 27m. P.m. Southing on the same days at 6b. 3m. and 5h. 1l. and 5h. and 5h. 2l. and 5h.

On the first, Mars, Gamma Pegasi and Alpha Arietis form a triangle, the Planet occupying the lower angle; being 18° from the former and 31° from the latter star. On the 23rd, Mars, Alpha Arietis and Alpha Ceti form a triangle, of which the planet is situated in the W. angle; being 18° S.S.W. of Alpha Arietis, and 20° E. of Alpha Ceti. During this month the Planet sbines more brilliantly than any star near him

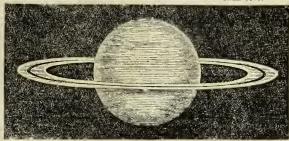
JUPITER will be in the constellation of Gemini. He rises about 4° N. of the N. E. by N. point of the horizon; on the 1st at 3h. 15m. a.m.; and on the last day at 1h. 47m. a.m. He souths at an altitude of 62°; on the 1st at 11h. 30m.

A.M.; and on the last day at 10h. 0m. A.M.

On July 1, he is situated in a line drawn from Aldebaran to 1° below Pollux; he is 26° distance from Aldebaran; 18° from Castor and 19° from Pollux. He is moving towards Castor and Pollux all the month, and on the last day he is 14° distance from both stars.

SATURN rises at about the same point of the horizon, and souths at the same altitude as in May. On the lst he rises at 11h. Im. P.m. and souths at the same altitude as in May. On the lst day he rises at 9h. 0m. P.m. and souths and the following morning at 2h. 20m. A.M. He is stationary among the stars till the 20th day; after that time he moves slowly westward, and he is situated as in last

TELESCOPIC APPEARANCE OF SATURN DURING THE YEAR 1847



Scale 15" to an inch.

URANUS rises near E. by N. at 11h. 52m. F.M on the 1st, and at 9b. 54m. on the last day. He souths at 6h. 33m. A.M., and 4h. 36m. A.M. on the same days, at the same altitude as in the last month. During the month he is nearly stationary among the stars.

TIMES OF THE SOUTHING, &c., OF THE PRINCIPAL FIXED STARS WHICH PASS THE MERIDIAN BEFORE MIDNIGHT.

Stars' Names.	Magnitude.	ing d	of south- luring the ing of the	Height in degrees above the horizon.	Setting.				
	Me	•	st. uay.	S(South). N(North)	Num. of hours from southing.	Point of the hori- zon.			
Alpha Corona Bore-	2	н 8	эг. 50	66°s	н. 8½	N.W.			
Alpha Serpentis	2	8	59	458	6 <u>1</u>	W. by N.			
Beta Scorpü	2	9	18 42	19s 12s		S.W. by W. S.W.			
Antares Beta Draconis	2	10	42	89N	Never Sets	5.17.			
Alpha Opbiuchi	2	10	50	51s	71/4	W.N.W.			
Alpha Lyræ	1	11	54	778	Never Sets				

POSITION OF THE CONSTELLATIONS RISING, ON THE MERIDIAN, AND SETTING ON THE 1st. DAY AT 10H. P.M.

ш			
I	Constellations Rising.	Constellations on the Meridian	Constellations Setting.
1	in N.N.E.	Auriga 20° above N. hori- zon	N.W. by N.
		Camelopardalus 30° above N. horizon	
	The N. fish of Pisces in N.E.		The fore-legs of Leo in W.N.W.
	E.	The body of Draco, be- tween the Pole Star and the Zenith	
I	E. by S.	Hercules, 60° above S. horizon	S.W. by W.
1	in S.E. by E.	Ophiuchus, 50° above S. horizon	
1	The body of Sagittarius in S.E. by S.	The tail of Scorpio, 20° above S. horizon.	Lupus in S. by W.

of th.	Length of Day, or	Hours and	Time of	Time of	JUPITER'S SATELLITES.	OCCULTATIO	ONS OF STARS BY THE MOON.
Days of the Mouth.	hours be- tween sun-	Day has de-	Day-break, or heginning of Twilight.	Twilight	Eclipses of	Names of the Stars.	Times of disappearance and re-appearance of the Star. At the dark or bright limb of the Moon.
1 6 11 16 21 26 31	H. M. 16 28 16 22 16 15 16 5 15 54 15 38 15 23	и. м. 0 6 0 12 0 19 0 29 0 40 0 56 1 11	constant T	H. M. Night, but vilight. 11 9P.M. 10 47	Are not visible, Jupiter being too near to the Sun.	z ¹ Aquarü 63 Tauri	6 1 1 50 A. M. Bright 2 25 ,, Dark 6 9 1 41 ,, Bright 2 30 ,, The Moon ls at this time a narrow erescent

TIMES OF CHANGES OF THE MOON,	f the	MERC	URY.	RIG VEN	HT ASCI		AND D	JUPITER.	F THE PLANETS		NUS.
And when she is at her greatest distance (Apo- gee), or at her least distance (Perigee), from the Earth, in each Lunation.	Mo	Right Ascension	Declina- tion North,	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Asceusion North.	Right Ascension South	Right Ascension	Declina- tion North.
LAST QUARTER	1 6 11 16 21 26	8h. 23m 8 49 9 9 9 24 9 32 9 32	20° 36′ 18 16 15 54 13 41 11 51 10 39	9h.43m 10 4 10 23 10 42 11 0 11 17	15° 23′ 13 19 11 9 8 54 6 36 4 17	0b.39m 0 51 1 3 1 14 1 26 1 36	1° 19′ 2 31 3 40 4 46 5 50 6 51	6h, 5m, 23° 17' 6 10 23 16 6 15 23 15 6 20 23 14 6 25 23 11 6 29 23 9	23h. 0m. 8° 27 22 59 8 30 22 59 8 3- 22 58 8 30 22 58 8 4- 22 57 8 56	1 8 1 1 8 1 1 8 1 1 8	6° 29' 6 31 6 32 6 33 6 33 6 33



KING JOHN SIGNING MAGNA CHARTA.

SIGNING OF MAGNA CHARTA. THE 2nd of July was the day appointed to be observed as a national holiday, for

SIGNING OF MAGNA CHARTA.

The 2nd of July was the day appointed to be observed as a national holiday, for thanksgiving and joy, by those noble barons who so resolutely and successfully defended the rights of the people, against the oppression, duplicity, and immorality of the universally hated John; and forced him to sign and concede on the 15th day of June, 1215, "this great charter of English liberties."

King John and the Barons met according to a previous arrangement in a meadow between Staines and Windsor, adjacent to the Thames, called Runnimede, and this meadow, which has for ages been regarded as the place where the great charter was signed, or rather sealed, is in the parish of Egham. It has been stated, lowever, that although the conferences between the opposite parties may have been held at Runnimede, yet the actual scene of the ratification of the covenant was an island in the Thames, still known by the name of Charter Island, which is not within Surrey, but belongs to the parish of Wraysbury, in Buckinghamshire. The fallacy of this assertion is easily proved, for Runnimede is expressly named in the King's subscription to the charter itself, as the place where it was signed. The words are—"in Prato quod vocatur Runnimed in! Windleshor' ! Stanes," as may be seen in an original copy of the charter, preserved among the archives of Lincoln Cathedral. The "Carta de Forseta," which was granted by John on the same day, was also signed at Runnimede. The ceremony took place, not in any house, but in the open field; the assembly continued for some days; but it was no sooner dissolved than the King threw off the mask, which, with consummate hypocrisy, he had worn during the proceedings. Lingard says, that "in a paroxysm of rage, he cursed the day of his birth, gnashed his teeth, rolled his eyes, gnawed sticks and straws, and acted all the freaks of a madman."

This charter is often regarded as the constitutional basis of English liberties; but, in many of its provisions, it seems to have been only a declaratio

the crown, for the names here are equivalent), ecclesiastical persons, citizens burgesses, and merchants enjoy, it recalled into existence, it defined, it settled them, it formed in its written state a document to which appeal might be made, under whose protection any person having interest in it might find shelter; and which served, as it were, a portion of the common law of the land, to guide the judges to the decision they pronounced in all questions between the King and any portion of the people.

portion of the people.

The names of the chiefs who gained this grand concession from the King are preserved in the charter itself. The first name is that of Robert Fitz Walter, who belonged to the great family of Clare. Next to him come Eustace de Vesci, Richard de Percy, Robert de Roos, Peter de Brus, Nicholas de Sutevile, Societ Quenci, Earl of Winchester, the Earls of Clare, Essex, and Norfolk, William de Mowbray, Robert de Vere, Tulk Fitz Warine, William de Montacute, William de Beauchamp, and many others of families long after famous in English history, the progenitors of the ancient baronial houses of England.

progenitors of the ancient baronial houses of England.

Magna Cbarta has been painted in a great number of forms; there are facsimiles of a copy of it which was made at the time, and still exists in the British
Museum, and another preserved at Lincoln, already mentioned. Of this charter
the late Board of Commissioners of the Public Records caused to be engraved
and published an exact fac-simile, and it will be found printed and translated in
the first volume of "The Statutes of the Realm." Long after the charter was
granted, to keep the rights thus guaranteed fully in the eyes of the people, a
copy was sent to every cathedral church, and read publicly twice a year.

Blackstone gives a satisfactory abridgement of the charter in his "Commen-

copy was sent to every cathedral church, and read publicly twice a year.

Blackstone gives a satisfactory abridgement of the charter in his "Commentaries;" we have, besides, an express treatise on it. It was called Magna Charta, or the Great Charter, not on account of its extent, for a single page of parchment, measuring 20½ inches by 14½, contains the whole of its privileges; but because it recorded so many ancient rights of the nation, and abolished so many nnjust oppressions. The finest and most perfect original of the charter is that at Lincoln. For popular gratification, the charter has been lithographed, and published at a moderate price moderate price.

JULY.

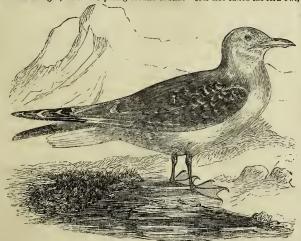
JULY.

In July, most of the succulent plants come into flower, such as the various kinds of Sedum, and house-leek; also, the snapdragon and varions kinds of Labiatæ, and nearly all the Compositæ. It has been observed that the flowers in this month are generally yellow or red. In July is frequently found the curious parasite called broom-rape, growing from the roots of the beech and other trees. The stem of this plant is purple, and the flowers are lightish brown; it has also light brown scales, which serve instead of leaves. Another curious parasitical plant, which is found at this season, is the Cuscuta or dodder, which twines itself round the stems of clover, heath, and other low-growing plants, so as completely to hide them. Nettles are very abundant at this season; and, as some persons have been known to express a wonder of what use such uzly stinging plants can be, it may known to express a wonder of what use such ugly stinging plants can be, it may be interesting to mention, that upwards of fifty species of caterpillar are known to feed npon the nettle, and to prefer its leaves to those of any other plant. Sea-weeds are, however, perhaps the most interesting plants at this season, for those who happen to be staying near the sea-coast, as most of them are now in fructification. Several kinds are only found in the south and south-west of

for those who happened in the south and south and south and south of freat in fructification. Several kinds are only found in the south and the south of Ireland; but others are common in every part of Great England, and the south of Ireland; but others are common in every part of Great England. One of the most abundant of the latter kind is the bladder fucus, or this plant is often three or four feet long; its England, and the south of Ireland; but others are common in every part of Great Britain. One of the most abundant of the latter kind is the bladder fucus, or sea-wrack. The frond, or leaf, of this plant is often three or four feet long; its colour is a dark olive-green, and it is furnished with a strong midrib, occasionally branched, and numerous air-vessels, about the size of a large pea, generally arranged in pairs, opposite each other, on each side of the midrib, which explode when the frond is clapped between the hands. The sporules, or seeds, are contained in pine-shaped receptacles, which are formed at the extremity of the fronds, and which, when ripe, are of an orange colour. Large masses of this weed are thrown on shore in stormy weather. It is used for manure, and its ashes form the alkaline substance called kclp, which was formerly so much used in the manufactures of soap and glass. Now, however, the duty having been removed from barilla and sait, kelp is but little used. In Sweden, this weed is boiled, and used for feeding pigs. There are many other kinds of fucus, particularly that called buck's horn, which is very common in Scotland and the north of England, but which is seldom seen in the south; and the cut-leaved fucus, which has notched leaves and tubercles instead of air vessels. Another very beautiful sea weed which is common in the south of England, and particularly in the Isle of Wight, is the feathered fucus (Ptilota plumosa). The fronds are tuffed, and of a beautiful pale crimson when young, becoming of a dark brown when older. Another curious sea-weed, which has only been found in Great Britain in Freshwater Bay, in the Isle of Wight, is the cartilisginous Gelidium. The fronds are beautifully pinnated, and of a reddish hue. The plants when boiled form a stiff jelly, and it is said to be from a plant of this genus that the Indian swallow makes those nests which are used in China for making soup. The laver, which is so frequently eaten as a kind of vegetable, is a kind of sea-weed, growing lemon-juice. lemon-juice. There are two distinct kinds, the purple and the green, and several species of each. Numerous other sex-weeds are found upon the British coast, such as the chequered Enteromorpha, the fronds of which form dense tufts of a yellowish green; and, though each is not thicker than a bristle, yet, when exayeriowsin green; and, mongh each is not thicker than a bisite, yet, when examined under a microscope, it will be found so beautifully reticulated as to appear like lattice-work. The different kinds of *Ectocarpus* are found on various parts of the coast, forming tuffs of green filaments. Other tuffed sea-weeds belong to the genus *Polysiphonia*, but they are generally dark red, or purple.

Very few birds sing in the month of July; and the cuckoos and many other migratory birds leave England in that month. Young broods of swallows, martins, and some other birds that breed in England, are generally seen at this season. On warm summer evenings, the goatsucker may be often seen darting about in search of insects, and hovering round goats while they are feeding,

The goatsucker (Caprimulgus europeus, Lin.) is a very curious bird. The mouth is remarkably large, and it is furnished with long hairs or bristles, which, it is supposed, are intended to prevent the small butterflies and other winged insects, on which it feeds, from escaping when once caught. On the middle claw of each foot, is a curious kind of comb, with which it is supposed the bird arranges or disentangles the fringe of its beak. This bird is known by a great many names; it is called the nightjar, from a peculiar jarring noise, not unlike the sound of a large spinning-wheel, which it makes when it files, and which, of course, appears loudest at night, when everything around is still. It is also called the fern-owl,



THE GULL.

because it generally makes its nest among ferns; and, as it feeds on nocturnal insects, it flies at night, like the owl. Its popular name of goatsucker arises from an absurd supposition that it sucks goats, and that the animals which have been sucked by it are liable to a disease called puckeridge. The fact is, that this disease arises from a species of fly, which lays its eggs in the skin of goats, which produce the maggots that are found in the animals affected with the disease; and, as the bird hovers round the goats to catch the insects which are about to lay their eggs, it is more likely to prevent the disease than to occasion it

Young wild ducks and teals are often found in this month; and owls are seen flitting about towards the evening. In this month gulls are very abundant on the sea-coast, and they often build on the ledge of a rock so close to the water, that it seems wonderful they can keep their eggs from falling in. They are very abundant in the north of Great Eritain, but they are also found on the southern coast during the summer months, particularly between the Needle Rocks and Freshwater Gate, in the Isle of Wight. There are several kinds of gull, which are distinguished by their feathers being marked in different places with black. There is a gull near Bonchurch, in the Isle of Wight, which was brought up there nearly thirty years ago, and which, for many years, used to leave its host's every season to pair with the wild birds which visited the coast every spring; but it always returned after the breeding season was over, and would suffer itself to be played with, and fondled by the children as before, though it would not suffer itself to be touched by strangers.

Insects are now particularly abundant, and an immense quantity of moths and butterflies are seen flying about. Amongst the moths may be mentioned the lappet moth, the caterpillar of which is very large, and is remarkable for having the sides of its body furnished with fleshy appendages, from whence it has received the name of lappit. It is dark grey, or brownish, and has numerous tuffs of hairs. The perfect insect is of a reddish brown; and when it is at rest it folds its wings so curiously that it looks like a dead leaf. The chrysalis looks like the hairy seed vessel of a plant.



THE CATERPILLAR OF THE HAWK MOTH.

THE CATERPILLAR OF THE HAWE MOTH.

The moth of the lobster caterpillar appears in this month. It is of a pale brown, with a lozenge-shaped dark brown mark on the head. The caterpillar is red, with very long fore-legs, and the tail curved, so as to bear considerable resemblance to a lobster. The moth of the zig-zag caterpillar appears in this month, it is small, and brown, and not remarkable for its beauty. The caterpillar is very curious. The long straight caterpillars which resemble twigs in their appearance are often found in this month; and that of the swallow-tailed moth (Ourapteryx Sambucaria) is exactly like a brown twig. The moth is of a very pale yellow, and the chrysalls is enclosed in a cocon of leaves hung from a branch by silken threads. The caterpillar of the brimstone moth (Rumia Cratagata) has another of these twig-like caterpillars, but it is generally of an irongrey, sometimes varying to brown; and the moth is of a brimstone yellow.



THE CATERPILLAR OF THE PUSS MOTH.

Other caterpillars of less common insects have the same twig-like appearance. The sphinx caterpillars take their name from the curious attitude of the cater-The sphinx caterpillars take their name from the curious attitude of the caterpillar, which resembles that of the Egyptian Sphinx. The perfect insect of these caterpillars is the hawk moth, of which there are many species, all of which are very handsome, both in the larva and the perfect state. In this month is offen found the caterpillar of the puss moth, a very curious creature, with a forked tail, and a very curious face, which is of a reddish purple, with yellowish lips, and jet black eyes. The under part of the body is green, and the upper part of a very dark purple with a white margin; the tail is black. It is generally found feeding on the willow.

feeding on the willow

a very dark purple with a white margin; the tail is black. It is generally found feeding on the willow.

A very curious little beetle is often seen on the surface of ponds about this season. Hundreds of these little creatures appear together darting and whirling about on the surface of the water, their shining wing cases and rapid motions positively dazzling the eyes. These little creatures are the whirlwig beetles; but the country people call them water fleas. When they are frightened, they dart down into the water, carrying with them a small bubble of air, which looks like a drop of quicksilver attached to the body of the insect when it is seen clinging to an aquatic plant at the bottom of the water. When these beetles are seen in the water, they are always clinging to some aquatic plant, as their bodies are said to be so exceedingly light that they would rise to the surface if they did not take hold of something to keep them down. When caught, they emit a milky fluid, which has a very disagreeable smell, and which remains on the fingers are laid on the leaves of aquatic plants, and they look like small bugles. The grubs look almost like centipides; they are of a greyish white with long slender bodies, and six legs. Towards the end of July or the beginning of August they climb up the leaves of reeds, or any robust growing plants which they find near the water, to undergo their transformations. Here each grub spins for itself a substance resembling grey paper, of which it forms its chrysalis. In this state it remains about a month, and the moment it is released, it springs into the water and darts about on its surface with the other insects.



		1	1	SUN.		1	MOON.		DU	RATION	OF M	IOONLIGHT.	HIGH WATE		Equa-	ead
M	w	ANNIVERSARIES, OCCUR-	1		DECLINA-	RISES.	1.	SETS.		Sunrise.	e n's	After Sunset.	AT LONDON BRID	GE 1	TIME.	Day the Ye
D	D	RENCES, FESTIVALS, &c.	RISES.	SETS.	NORTH.	Afternoon	Souths.	Morning		lock. h. 4h.	Moon'	O'Clock. 8h. 9h. 10h.	Morning. Afterno	on	Add.	Pã
			н. м.	I. M.	Deg. Min.	H. M.	-78	H. M.		1 1	=-	VIIIIIII VIIII I	н. м. н. э	a. h	M . S.	
1	S	Lammas Day -	4 25 7	7 46	18 8	9 55	Morning.	9 17		1 1 1	20		4 55 5 2	20	6 3	213
2		9th SUNDAY AFTER	4 27	7 44	17 53	10 25	4 38	10 33			21		5 45 6 1	10	5 59	214
2	M	TRINITY Antares souths at 7h. 32m.	4 000	7 49	17 38	11 0							6 35 7	- 12	5 55	215
3	Tu	P.M., 12 deg high	4 28 2	43		11 0		Afternoon	-		(216
4	W	a Herculis souths at 8h. 16m.	4 29	7 41	17 22	11 37	6 25	$\begin{vmatrix} 2 & 1 \end{vmatrix}$			23			-11	5 51	
5	Тн	Oyster season beg.	4 31 7	7 40	17 6	Morning.	7 19	3 6	-		24		8 25 9	- 11	5 45	217
6	F	Transfiguration of	4 33 2	7 38	16 50	0 23	8 13	4 4			25				- 00	218
7	S	our Lord	4 35 7	7 36	16 33	1 13	9 6	4 58			26		11 0 11 4	10	5 33	219
8	S	10th SUN. AFT.	4 36 2	7 34	16 16	2 8	9 58	5 43			27		0 1	0	5 26	220
9	$\tilde{\mathbf{M}}$	TRINITY	4 38 2	7 32	15 59	3 7	10 48	6 14			28		0 40 1	5	5 18	221
10	Tir	St. Lawrence	4 39 7	7 31	15 42	4 12	11 36	6 47			29		1 32 1 5	5 .	5 10	222
11	w	Dog Days end	4 41 7	7 29	15 24	5 15	Afternoon	7 18			9			5	5 1	223
12	Тн	Grouse Shoot, beg.	4 43 7	7 27	15 6	6 19	1 6	7 42			1		2 53 3 1	0	4 52	224
13	F	Birth of Dowager	4 44 7	7 25	15 48	7 21	1 49	8 7			2		3 27 3 4	5	4 42	225
14	S	Queen Adelaide, 1792	4 45 7	7 23	14 30	8 24	2 32	8 30			3	700000000000000000000000000000000000000	3 58 4 1	5	4 32	226
	S	llth S. Aft. Tri.	4 46	21	14 11	9 26	3 14	8 52			4		4 30 4 4	5	4 21	227
	\tilde{M}	Sun rises E.N.E. and sets	4 48 7	7 10	13 53	10 29	3 57	9 17			5		5 2 5 2	20 4	4 9	228
171	Tu	Duchess of Kent	1 40 7	17	13 34	11 31	4 41	9 44			6	100000		0 :	- 11	229
18	W	horn, 1786	4 51 7	7 15	13 14	01	5 27	10 15			7			0		230
	cro l	α Lyræ souths at 8h. 4lm.	4 52 7	7 13	12 55	Afternoon 1 35	6 15	10 51			D			0		231
$\frac{19}{20}$	IH ID		4 54 7	7 11	12 35	2 34	7 5	11 34			0			0 :		232
20	F	Aquilæ souths at 9h. 3m.		7 0	20		7 58				10		8 45 9 3			233
21		δ Aquilæ souths at 9h. 18m.		9	12 16	3 29		Morning.			10		10 5 10 4		- 11	234
22	S	12TH S. AFT. TRI.	4 57 7		11 56	4 31	8 53	0 27			11		11 23 Widnigh	٠ ا	- 11	235
23	M	Sun enters Virgo	4 59 7		11 35	5 7	9 49	1 28			12		Trattatigi		-11	236
24	Tu	St. Bartholomew	5 0	7 3	11 15	5 46	10 46	2 36	1//2		13		0.2	- 11		
25	\mathbf{W}	α Aquilæ Souths at 9h, 28m. P.M., 47 deg. high.	5 2 7	7 I	10 54	6 22	11 43	3 52			14		0 50 1 2			237
26	Тн	Pr. Albert b. 1819	5 3 0	5	10 34	6 56	Morning	5 15						$\begin{bmatrix} 5 \\ 1 \end{bmatrix}$		238
27	\mathbf{F}	α Aquarii souths at 11h. 36m.	5 5 6	5 57	10 13	7 25	0 39	6 35		_	16		2 28 2 5	- 6 1	- ()	239
28	S	St. Augustine 3	5 7 6	55	9 52	7 56	1 34	7 56			17		3 10 3 3	1.5		240
29	S	13th S. aft. Tri.	5 8 6	53	9 30	8 27	2 29	9 16			18		3 55 4 2			241
30	M	St. John the Baptist he- headed. A Romish festival	5 10 6	51	9 9	9 1	3 24	10 34			19			$0 \parallel 0$	(242
31	Tu	α Cygni souths at 9h. 58m.	5 12 6	48	8 48	9 38	4 19	11 38			20		5 20 5 4	5 (0 19	243
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AUGUST.

AUGUST.

The Moon rises before midnight till the 4th, and after midnight from the 5th. She sets during the day and before midnight till the 20th, and after midnight from that day; she rises after Sun-set from the 27th to the end of the month. On the 1st and 2nd she is in Pisces; on the 1st a large triangle is formed by the Moon, Alpha Arietis, and Alpha Ceti, and her course is directed between these stars, hnt much nearer the latter than the former; on the 2nd she will he approaching the line joining them, and she is directing her course to Aldebaran. On the 2nd and 3rd she is in Aries, and on the latter day at 1h. 59m. P.M. she enters her 3rd quarter; from the 4th to the 6th in Taurus. On the 5th she is seen S.E. of the Pleiades, and approaching the Hyades and Aldeharan, which she passes before sun-rise on the 8th, and her crescent will be seen several degrees E. of them. On the 7th, at time of rising, she is in the Milky Way and in Orion. On the 1th day is New Moon, hut without an eclipse as she is 3 degrees distant from the line joining the Sun and Earth. On the 14th she is on the Equator at 7h. A.M. and moving Southward; from the 14th to the 16th she is in Virgo, and her narrow crescent will be seen S. of W. after Sun-set. On the 15th she is directing her course evidently a few degrees ahove Spica Virginis; hefore setting on the 16th she will have passed this star, so that she is W. of it during the time she is visible. On the 17th and 18th she is in Libra, directing her course above Antares, which, on the former evening, is considerably S.E. of her, and on the latter at a much less distance. On the 19th she is in Scorpio, and early in the evening ahout 12° nearer the Pole Star than Antares; but the latter sets some time hefore the Moon, at 5h. 1m. in the morning of this day she enters her last quarter. On the 20th in Ophiuchus; from the 21st to the 23rd she is in Aqualia, passing at a considerable distance. S. of the three characteristic stars of this constellation. From the 24th to the 26th she is in Aqua

distance S. of the three characteristic stars of this constellation. From the 24th to the 26th she is in Aquarius; on the latter day at 6h. 9m. A.M. she is full, hut without an eclipse; on the 27th at 10h. P.M. she is on the Equator, and moving N.; from the 27th to the 29th she is in Pisces; in Aries on the 30th, and in Taurus on the 31st, moving towards Aldeharan.

MERCURY will he in the constellation of Leo throughout the month. The Sun riese before him till the 10th, and after that time the rising of the Planet precedes that of the Sun. On the 11th the Planet rises at 4h. 28m. A.M.; on the 16th at 3h. 25m. A.M.; on the 21st day at 3h. 26m. A.M.; on the 26th at 3h. 20m. A.M.; at near the E.N. E. point of the horizon. From the 20th to the 31st, the rising of the Planet precedes that of the Sun hy more than an hour, and therefore this time is favourable for observine him.

the Planet precedes that of the Sun hy more than an hour, and therefore this time is favourable for observing him.

He souths on the 1st at 0h 45m. P.M. at an altitude of 48°; and on the last day at 10h. 58m. A.M. at an altitude of 53°. He is moving Westward among the stars till the 17th, and Eastward afterwards.

On the 20th he is 21° S.E. of Pollux; and 23° N.E. of Procyon (the little Dog Star). He is moving from those stars towards Regulus, and on the 29th he is in the line joining the Pole Star and Alpha Hydre, at the distance of 24° N. of the latter star, and he is 10° W. of Regulus.

VENUS will be in the constellation of Virgo throughout the month. On the 1st she souths at 2h. 59m. at the altitude of 40°, and sets at 9h. 11m. P.M. near the W.; on the 4th day she sets nearly due W. On the 13th day she sets at 8h. 20m. P.M. near the W. hy S., and on the last day she souths at 2h. 11m. P.M. at the altitude of 34°, and sets at 7h. 17m. P.M. midway hetween the W. hy S. and W.S.W.

TELESCOPIC APPEARANCE OF MERCURY AND VENUS AT THE BEGINNING AND TOWARDS THE END OF THE MONTH.





MERCURY.

Scale 40" to an inch.

VENUS.

On the 1st, 2nd, and 3rd she is situated nearly in a line joining the Pole Star and Beta Leonis, and at the distance of 15° S. of this star; and after these days she is moving towards Spica Virginis all the month; and at the end of the month she is about 7° W. of that star. She is hrighter than any object near her during the month; and being at her greatest hrilliancy on the 28th day at 1h. 17m. A.M., she will he a very conspicuous and splendid object. On the 14th she will be near the Moon, heing about 3° S.E. of her.

MARS will he in the constellation Cetus during the month. He rises at the heginning of the month near E. hy N.; about the middle of the month midway he-tween E. hy N. and E.N.E., and near the latter point at the end. On the 1st at 10h. 25m. P.M.; on the last day at 8h. 55m. P.M. He souths on the same days at 5h. 10m. A.M., and 4h. 4m. A.M. respectively, at the altitude of 46° on the 1st, and of 51° on the last day.

On the 6th he is situated in an imaginary line drawn from the Pole Star to Alpha Arietis, and produced to 14°; on the 27th day he is in a line drawn from the Pole Star to Gamma Ceti, at the distance of 9° N. of the latter star, and he is at the same time 10° from Alpha Ceti. During this month he increases very much in brightness, and he becomes a conspicuous object hoth from his hrilliaucy and the redness of his colour.

JUPITER will he in the constellation of Gemini. He rises about 3° N. of N.E. by N.; on the 1st at 1h. 44m. A.M., and on the last day at 0h. 14m A.M. On the 1st he souths at 9h. 57m. A.M., and on the last day at 8h. 25m. A.M., at an altitude of 61°.

During the first few days he is situated in a line joining the Pole Star and Sirius (the great Dog Star), and at the distance of 40° N. of this star; he is moving, as in the last month, towards Castor and Pollux, and at the end of the month he is about 9° W. of Pollux and 10° W. of Castor.

SATURN rises during the former part of the month at about 3° S. of E. hy S., and during the latter part at 4° S. of the same point of the horizon; on the 1st day at 8h. 57m. P.M.; and on the last day at 6h. 57m. P.M. He sonths at an altitude of 29° on the 1st day at 2h. 20m. A.M.; and on the last day at 0h. 14m. A.M. His motion is slowly Westward among the stars; at about the middle of the central the regiment of the start of the stars of the stars. month he is situated about 23° from Alpha Pegasi, and 21° from Fomalhaut.

URANUS rises near E. by N. at 9h. 51m. P.M. on the 1st day: and at 7h. 52m. P.M. on the last day. He souths at 3h. 36m. A.M. on the 15th day, at an altitude of 45°.

TIMES OF THE SOUTHING, &c. OF THE PRINCIPAL FIXED STARS, WHICH PASS THE MERIDIAN BEFORE MIDNIGHT.

Stars' Names.	Magnitude.	ing du	f south-	thove the	Setting.				
	Mag	1st.	day.	S (South) N (North)	Num. of hours from southing.	Point of the horizon.			
		н	и.		H.				
Beta Draconis	2	8	47	89°N	Never Sets	Near W. by N.			
Alpha Ophiuchi	2	8	48	518	7 1				
Alpha Lyræ	1	9	52	77	Never Sets	W.N.W.			
Alpha Aquilæ	1	11	3	47	63				
Alpha Cygni	1	11	56	83	Never Sets				

POSITION OF THE CONSTELLATION'S RISING ON THE MERIDIAN, AND SETTING ON THE 1st DAY AT 10H. P.M.

	Constellations Rising.	Constellations on the Meridian	Constellations Setting
00100	Auriga in N.N.E.	Tho Lynx 15° to 20° ahove the N. horizon.	The hind legs of the Lynx
A CONTRACTOR OF THE PARTY OF TH	The feet of Perseus in N.E. hy N.	The head and neck of Camelopardalus 40° ahove the N. horizon	Leo Minor N.W. by N.
The state of the state of	Musca in N.E. hy E. The head of Aries in N E.	Polaris A part of Draco, between the Pole Star and the Zenith.	The rump of Leo N.W. by W.
100	S.E.	Lyra 75° ahove the S. horizon The head of Sagittarius 15° ahove the S. horizon	hy N. Libra 15° ahove the S.W.

Time of disapprarance of the Stars. Day beginning of Twight. Energion. Emersion.	of ith.	Length of Day, or	Number of hours and	Time of	Time of	JUPITER'S S.	ATELLITES.	OCCULTATIO	ons	OF STARS BY THE MO	OON.
1 15 21 1 13 1 28 A.M. 10 43 F.M. 10	Days of the Month.	houra be tween Sun- rise and	creased since	or beginning of Twiight.	Twilight	1st. Sat.	3d. Sat.	Names of the Stars.	20	and re appearance of the	or bright limb
	11 16 21 26	15 21 15 5 14 48 14 31 14 14 13 56	1 13 1 29 1 46 2 3 2 20 2 38	1 28A.M. 1 48 ", 2 6 ", 2 22 ", 2 37 ", 2 51 ",	10 43 P.M. 10 23 ", 10 4 ", 9 45 ", 9 27 ", 9 11 ",	No Eclipse of the 2nd Satellite is visible during the month.	28 1 34 A. M. 4th. Sat. 31 3 57 A. M. Immersion This is the 1st Eclipse of the 4th Satellite, visible in England since		5	24 8 10 P. M. 9 3 ", 26 5 10 A. M. The Moon is below the horizon when the star emerges	Bright The Moon nearly full; the Star disappears on the W. side & ahont 30° fromthehigh est point of

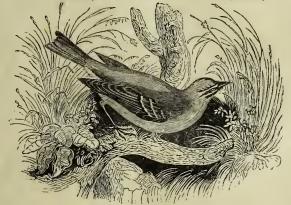
TIMES OF CHANGES OF THE MOON,	0			RIGH'	T ASCEN	SIONS A	ND DEC	LINATIO	NS OF T	HE PLA	NETS.		
And when she is at her greatest distance	f the	MER	URY.	VE	vus.	MA	RS.	JUPI	TER.	SAT	URN.	URA	NUS.
(Apogee), or at her least distance (Perigee), from the Earth in each Lunation.	Days of the Month.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion South,	Right Ascension	Declina- tion North.
Last Quarter . 3d. III. 59M. P.M.	1 6 11 16 21 26	9h.23m 9 9 8 55 8 47 8 51 9 7	11 18 12 56 14 41 15 58	11h.37m 11 52 12 6 12 19 12 30 12 40	1° 29'N 0 49s 3 3 5 13 7 15 9 7	1h.49m 1 59 2 8 2 17 2 25 2 33	7° 59′ 8 52 9 41 10 27 11 8 11 45	6h. 35m 6 39 6 44 6 48 6 52 6 56	23 2 22 58 22 53 22 48	22h.56m 22 55 22 53 22 52 22 51 22 50	8° 59′ 9 6 9 14 9 23 9 32 9 31	1h. 8m 1 8 1 8 1 8 1 7 1 7	6° 33′ 6 32 6 39 6 28 6 26 6 23



AUGUST.

In this month several water-plants are in flower, particularly the beautiful water pepper (Polygonum amphibium). This plant grows in the water, though its terminal spikes of rosy flowers, and occasionally its long lanceolate leaves, rise above the surface, and at a little distance have the appearance of an island. The flowering rush (Butomus umbellatus) has also pink flowers, but it has decidedly the appearance of a water-plant; as bave the bullrush and the reed-mace or cat's-tail. The dark brown club-like head of the latter plant is, in fact, a mass of fact, a flower than the read-mace of the surface of the latter plant is, in fact, a mass of fact, a flower than the read-mace of the latter plant is, in fact, a mass of fact, and the surface of the latter plant is, in fact, a mass of fact, and the surface of the latter plant is in fact, a mass of fact, and the surface of the latter plant is in fact, a mass of fact, and the surface of the latter plant is in fact, a mass of the latter plant is in fact, a mass of fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in fact, and the surface of the latter plant is in the surface of the latter plant is in the surface of the latter plant is in fact, and the surface of the latter plant is in the surface of the latter plant is in the surface of the latter plant is in the surface of the latter plant is in the surface of the latter plant is in the surface of the surface of the latter plant is in the sur of female flowers, which, when ripe, become a mass of downy seeds. The yellow flowers which appear above this club are male flowers, and they wither before of female flowers, which, when ripe, become a mass of downy seeds. The yellow flowers which appear above this club are male flowers, and they wither before the seeds ripen. The white water-lily is also still found occasionally, and the yellow water-lily, or brandy bottle, as it is called from its peculiar smell. The arrow-head, with its light purple flowers; the dark purple flowers of the French willow herb, and those of the purple loose strife; and the frog-bit, with its white flowers, are all highly ornamental. In this month several of the tree lichem begin to make their appearance, particularly those growing upon the oak, some of the handsomest of which are those called Ramalina and Usnea. Some of the latter hang down from the trunks of old oaks like hair. Another very curious lichen is that called oak lungs or bazel rag (Sticta pulmonaria). The thallus, or leafy part of this plant, is deeply pitted, so as to afford some resemblance to the human lungs; and hence it was supposed to be highly efficacions in curing consumption. It is, in fact, useful in all diseases of the lungs, as its medicinal properties are like those of the Iceland moss. The cup-moss is another curious lichen frequently found at this season. It is common on heaths, moors, and in dry woods, in every part of the kingdom; and, when in fructification, the cups are tipped with brown in the common species, but, in some of the other kinds, the seed-vessels are of a brilliant scarlet, and the stalks are of a greyish green. Several of the sedges are in flower at this season; and, in the gardens, the white and yellow lilies are in all their beauty. On the commons, the heath is in full flower; and when rushes were need for covering the floors, it was in this month that they were cut. that they were cut.

The birds in this month are more silent than in any other month in the year, but young broods of goldfinches, chaffinches and starlings, are seen crowding together. At this season, also, is occasionally seen the curious little bird called the fire-It is very common in Belgium, but it is comparatively rare in crested wren.

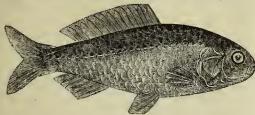


THE FIRE-CRESTED WKEN.

Great Britain; though, no doubt, it is frequently mistaken for the golden-crested wren, to which it hears a considerable resemblance, though, when closely examined, it may be easily distinguished by the two white streaks near its eyes. It hangs its nest on the branch of a tree, and lays five eggs of a pale flesh-colour, marked with small red spots at the larger end.

marked with small red spots at the larger end.

The common grouse, or moor-fowl (*Tetrao scoticus*), are only found on uncultivated wastes covered with heath, on high ground. They never resort to woods, but, according to Rennie, "confine themselves wholly to the open moors—building their nests—if a few withered stems placed carelessly together, deserve that name—in a tuft of heath; they feed on mountain and bog berries, and, in defect of these, on the tops of the heath." The female lays from eight to fourteen eggs; and the young, which keep with the parent birds till towards winter, are called a pack, or brood. Grouse shooting commences on the 12th of August.



THE GOLD FISH.

Though gold fish are not natives of Great Britain, they are so frequently bred in this country as to render some notice of them interesting. The gold fish is a kind of carp, which was first brought from China to Europe in 1611, though it does not appear to have been introduced into England till nearly ahundred years afterwards. It is a curious fact in the history of the gold fish, that it will bear without injury extremes of heat and cold, as it will live equally well in a tank, in a pine-stove, and in a pond in the open air. Some years since, Professor Host, a well-known naturalist in Vienna, chanced to leave a glass globe containing a gold fish in the window of a room without a fire, during one of the coldest nights of a very severe winter. In the morning he recollected his poor fish, and, examining the glass, he found the water frozen apparently quite hard, and the fish fixed immovably in the centre. Supposing the fish to be dead, he left it in the ice; but, as it was extremely beautiful, he took a friend to look at in the course of the day, when, to his great surprise, he found that the wa'er had thawed naturally, from the room becoming warm by the sun, and that the fish was quite Though gold fish are not natives of Great Britain, they are so frequently bred

lively, and swimming about as though nothing had happened. The friend of M. Host was so much struck with this remarkable occurrence, that he tried a similar experiment; but bringing his frozen fish to the stove to hasten its revival, similar experiment; but bringing his frozen fish to the stove to hasten its revival, the fish died. It is a well-known fact, that gold fish never breed in clear water; and it has been observed that when they do breed, the young conceal themselves among the roots of plants, in inequalities of banks, or among the faggots which may bave been put in for them. A lady who happened to pull up an aquatic plant which had grown on the bank of a pond in which there were some gold fish was quite astonished to find the roots appear alive; and on examining them, she discovered the movement to be occasioned by a great number of little dark-brown fishes which were sticking to the roots. These little fishes were the fry of the gold earp, which are taught by instinct to conceal themselves from the old fish till the golden hue begins to appear on their sides, which it does when they are about an inch long. It is said that the gold carp devour the fry of other fish, and also their own, if they see them before the golden blotches appear. When it is wished to breed gold fish in clear water in a tank or basin, a few faggots should be thrown into the water; or a sloping bank of gravel should be raised in the tank, the upper part of which is near the surface of the water. This will afford at once a situation for the old fish to deposit their spawn, and a shelter for the young fry. Some persons, when the spawn has been deposited on a faggot, remove the wood to another tank to rear the young; but they always do better, afford at once a situation for the old fish to deposit their spawn, and a shelter for the youg fry. Some persons, when the spawn has been deposited on a fargot, remove the wood to another tank to rear the yonng; but they always do better, and grow faster, when bred in a pond with an earthy bottom, and in which plants grow naturally. All kinds of carp, in favourable situations, live to a great age; but gold fish can seldom be kept in glasses longer than four or five years, and they scarcely ever grow in such situations. When kept in ponds, on the contrary, they live to a great age, and attain an enormous size. Some that were kept at Seville, were known to be upwards of sixty years of age; and several in England bave been known to weigh from three to five pounds. In the year 1846 a disease prevailed among the gold fish, which proved fatal to hundreds. A kind of conferva, nearly allied to the treen scum found on starnant water formed upont he

England bave been known to weigh from three to five pounds. In the year 1846 a disease prevailed among the gold fish, which proved fatal to hundreds. A kind of conferva, nearly allied to the green scum found on stagnant water formed upon the fish, and occasioned their death. This plant, which is called Achyla prolifera, consists principally of threads so exceedingly fine as to be imperceptible to the naked eye, but which take root in the body of the fish, as the mistletoc grows on the apple tree, and in time produce a soft downy substance like mould, that first appears on the gills and tail, but gradually covers the whole body of the fish. When this extraordinary disease, if it may be so called, is discovered in first stages, it is said that it may be stopped by sprinkling salt on the back and sides of the fish; but the application appears to cause intense pain, as the fish, as soon as it feels the salt, darts from one side to the other of the vessel that contains it, and appears to be writhing with agony.

Insects are very numerous in August, and caterpillars of several kinds that appear earlier in the season, are now seen again as if for a second brood. Among these may be mentioned the caterpillars of the cabbage butterfly, which are often found at this season, as if springing from a second brood. The caterpillars are greeu, with a yellow streak on each side. When young, the colours are pale and indistinct; but when the caterpillar has nearly attained its full growth, both the green and the yellow become dark and decidedly marked, and spotted with black. In August, this caterpillar forms its chrysalis, which is green, with a yellow stripe down the back. When the insect begins to form its chrysalis, it first spins a quantity of white silk, which it attaches to any object it may be near, and then fastens itself to this mass of silk by a strong girth round the centre of the body. As soon as the silk is completed, the insect reposes quietly at full length noon it, "or, rather, its body contracts in length, and be of the chrysalis appears; by continual writbing of the body the slit is enlarged, and the skin pnshed backwards beneath the skin of silk, and thrown off at the tail."—(Humphreyis British Butterflies.) A beautiful green caterpillar with bands of a darker colour, is also often found at this season. It is the caterpillar of the dot moth (Mamestra Persicariee). The moth flies at night, generally concealing itself during the day, and it is of a dark brown, with a very conspicuous white crescent-like dot on each of the fore wings. A hairy caterpillar is also found belonging to the spotted buffermine moth. The caterpillar is brown, and thickly covered with hair, through which may be seen a narrow red line down the back, and some white marks on each side. The moth has a yellow body, and pale buff wings slightly spotted with black. The swallow-tail butterfly is frequently found in this month. The caterpillar is of a fine green, with velvet-black wings, spotted with red. It feeds on umbelliferous plants, particularly on the fennel and the carrot. It has a bright red forked-like projection on the neck near the head, which, when touched, emits a strong-smelling liquid. When this caterpillar has attained its full growth, it makes itself a chrysalis, in the same manner as the caterpillar of the cabbage butterfly does.

the caterpillar of the cabbage hutterfly does.

AUGUST ANNIVERSARY.

(See preceding page.)
On Thursday, the 31st of August, five days after the great and ever memorable hattle of Crecy, Edward drew up his army before Calais, and hegan his famous siege of that place, which lasted nearly a year.

As it was a place of incredible strength, he resolved not to throw away the lives of his soldiers in assaults, but to reduce it by famine. He girded it by entrenchments, and built so many wooden houses for the accommodation of his troops, that his encampment looked like a second to an growing round the first. At the same time his fleet blockaded the harhoor and cut off all communication hy sea; the Governor obstinately refusing to capitulate, until reduced to the necessity of cating all their horses, dogs, and other animals, and nothing was left for them hut to eat one another. Edward, enraged at their chatinate resistance, refused them any terms, saying that he would have an unconditional surrender. Sir Walter Manny and many harons pleaded for the men of Calais. "I will not he alone against you all," said the King. "Sir Walter, you will tell the captain that six of the notable hurgesses must come forth naked in their shirts, with halters round their necks, and the keys of the town and castle n their hands: on these I will do my will, and the rest I will take to my mercy."

Six of the richest and most notable voluntarily offered themselves to asve their fellow itizens. The English barriers were opened, and the six were admitted to the presence of Edward, before whom they prostrated themselves, and, presenting the keys, hegged for mercy, but the King rejected their prayers, and ordered their heads to be struck off. The harons and knights entreated the King to he merciful, hat he would not hear them, and ordered the headsman to be summoned. But the Queen of England, who was far advanced in her preg-nancy, fell on her knees, and, with tears, said, "Ah! gentle Sire, since I have crossed the sea with great danger, I bave never asked anything of you; now I humbly pray for the sake of the son of the Holy Mary, and your love of me, that you will have mercy on these six men."

The King looked at her, and was silent awhile; he then aaid, "Dame, I wish you had heen somewhere else: hut I cannot refuse you—I put them at your disposal." Phillipa caused the halters to be taken off their necks—give them proper clothes and a good dinner, and then cismissed them with a present of six nobles each. In a few days after this good Queen was delivered of a daughter, whom she called Margaret of Calais.

This occurred on the 3rd of Auguat, 1347, nearly twelve months after the commencement of the siege; and exactly five hundred years have now passed away since this memorable event, so well and beautifully depicted by our Artist in the accompanying Engraving.

SEPTEMBER, 1847.



	1	i e											
M	w	ANNIVERSARIES, OCCUR-	II	SUN.			MOON.			F MOONLIGHT	HIGH WATER	Equa-	1 - 3
D	D	RENCES, FESTIVALS, &c.	RISES.	SETS.	DECLINA-	Rises.	Sourns.	SETS.	Before Sunrise.	After Sunset.	AT LONDON BRIDGE	TION OF	Ay of
-					NORTH.	Afternoon	Souths.	Morning.	O'Clock 2h. 4h. 5h.	O'Clock. 7h. \$8h. 10h.*	Morning. Afternoon	Suh.	De the
1	W	St. Giles	ы. м 5 13	H. M.		н, м.	н. м.	н. м.	1 1 1 1	Maturial designation (H. M. H. M.	M. S.	
1 0						10 22	Morning	0 58		7 1000000000000000000000000000000000000	6 10 6 30	0 0	244
2	Тн	Fire of Lond. 1666	5 15	6 44	8 4	$ 11 \ 10 $	6 9	2 0		22	6 57 7 30	0 19	245
3	F	β Aquarii souths at 10h. 34m.	5 16	6 42	7 42	Morning.	7 2	2 54		3		- 1	_
4	S	e Pegasi souths 10h. 43m.	5 18	6 40	7 20	0 5	7 54	3 42		4		1	246
5	S	14TH S. AFT. TRIN	5 20	6 37	6 58	1 3	8 45			SHILLING THE CONTROL THE SHILLING THE SHILLI	9 20 10 0	0 57	247
6	M	The Sun rises near E, by N.	5 21	6 35	6 36			4 17	11/4	5	10 40 11 20	1 17	248
7	T.	St. Eunurchus	1.			$\begin{vmatrix} 2 & 3 \\ 2 & 5 \end{vmatrix}$	9 33	4 52	20000	6	11 58	1 36	249
8		37 .1 1.			6 13	3 7	$10 \ 19$	5 21	2	7	0 24 0 50	1 56	250
	W	Nativity of the			5 51	4 10 1	11 4	5 48	2	8	1 15 1 35	2'16	251
9	Тн		5 26	6 27	5 28	5 12]	11 47	6 12			1 55 2 10		252
10	F	Fomalhaut souths at 11h. 3Im. P.M., 8 deg. high	5 27	6 25	5 5	6 15	fternoon	6 35		1	2 29 2 45	15	253
11	S	a Aquarii souths 10h. 36m.	5 29	6 23	4 42	7 17	1 12	6 57		$\frac{1}{2}$		1	
12	S	15THS.AFT. TRIN.	5 31	6 20	4 20	8 20	1 55	7 21		3		I	254
13	M	r Pegasi souths 11h. 28m.	5 32		3 57	9 21				900000000000000000000000000000000000000		13	255
14		Holy Cross	P - 4	6 16	3 34		2 38	7 47		4		3 59	256
15	W	Ember Week				10 24	3 23	8 17		5	4 30 4 45	4 20	257
	TC-	Aguilm souths at 61 0-		6 14	3 11	11 24	4 9	8 50		6	5 0 5 20	4 41	258
16	IH	PM, 47 deg. high		6 12	2 47	Afternoon	4 58	9 30		7	5 35 5 55	5 2	$\overline{259}$
17	F	Lambert	5 38	6 - 9	2 24	1 19	5 48	10 16	Comment of the Commen			11	260
18	S	€ Pegasi souths 9h. 48m.	5 40	6 7	2 1	2 12	6 41	11 13	Madall American American American				$\frac{260}{261}$
19	S	16THS. AFT. TRIN.	5 42	6 5	1 38	2 58	7 35		1				
20	M	C Pegasi souths 10h. 37m.	5 43	6 2	1 14	3 40	8 30	Morning.	7////		8 5 8 48		262
21	Tu	St. Matthew	5 45	$\tilde{6}$ $\tilde{0}$	0 51	4 17	- 00	0 16		1 - - -	00120 20	- 1	2 63
22		Sun in Virgo	5 47			2.00	9 25	1 4/				6 48	264
22		,				4 50 1	0 21	2 44		3	At Noon	7 9	265
04		Autumn commen. The Sun rises E. and sets		5 56	0 4	5 21 1	1 17	4 3		4	0 29 0 55	7 30	266
24	F	. W.	5 50	5 54	South	5 52	forning.	5 25			1 19 1 40	7 51 9	267
25		Sun in Libra	5 51	5 52	0 43		0 13	6 46	i				$\frac{267}{268}$
	S	17THS.AFT. TRIN.	5 53	5 50	1 6	6 59	1 10	8 8	1	1///			$\frac{208}{269}$
27	\mathbf{M}	St. Cyprian	5 55	5 47	1 29		$\begin{bmatrix} 2 & 7 \\ 2 & 7 \end{bmatrix}$	9 26		(mijm)	,		
28	Tu	Sheriffs sworn	5 56	5 45	1 53		a .	$\frac{9}{10} \frac{20}{42}$		William Street		0 02	270
29		St. Michael	5 58	5 43	-					approximation of the second		9 12 2	271
30			_		2 16		4 1	11 50	2		5 0 5 20 9	9 32 2	272
30		α Cygni souths at 8h. 0m.	5 59	5 41	2 39	9 59	4 56	Afternoon			5 45 6 10 9	9 52 2	273
	36	3									11		

SEPTEMBER.

SEPTEMBER.

The Moon rises before midnight on the 1st and 2nd, and after midnight from the 3rd. She sets during the day or before midnight before the 18th; from the 19th she sets after midnight, and rises during the afternoons and evenings to the end of the month. On the 1st day she is a little E. of Aldebaran, which, with the Moon, rises in the W.S.W.; on this day at 9h. 14m. she enters her last quarter. On the 2nd she is also in Taurus, and approaching the Milky Way; on the 4th and 5th she is in Gemini; or the latter day she rises W.S.W., nearly under Castor and Pollux, which are a few degrees above the S.W. by W. She is near those stars all the morning, passing between them and Procyon. On the 6th she is in Cancer, and in Leo on the 7th, 8th, and 9th; on the 9th at 3h. 47m. she is new, but without an eclipse, as she is situated 2 degrees from the line joining the Sun and the Earth. On the 10th she is on the Equator at 2h. P.M. and moving S. She is in Virgo from the 10th to the 13th; on the 12th after Sunset her narrow crescent is seen a few degrees above Spica Virginis in the E.N.E. On the 14th she is in Libra; 15th in Scorpio, and the 16th and 17th in Ophiuchus. From the 14th to the 16th she is directing her course towards Antares, which she passes on the morning of the latter day, and during the evening of the 16th it will be some degrees S.W. of the Moon. On the 17th, at 6h. 21m. P.M. she enters her 1st quarter. On the 18th she moves nearly on the boundary of Sagittarius and Aquila, passing on the 19th the three characteristic stars in the latter at a considerable distance below them. On the 20th she is in Capricornus; on the 21st and 22nd in Aqualuarius, and from the 23rd to the 25th in Pisces. On the 23rd the square of Pegasus is considerably above the Moon. On the 24th, at 9h. A.M., she is on the Equator and moving N. She rises now about 35 minutes later every night, and exhibits the phenomenon of the Harvest Moon, before midnight; this difference arises from the different angles made by the Ecliptic i THE MOON rises before midnight on the 1st and 2nd, and after midnight from the

43m. A.M. at the altitude of 45°; and on the last day at 0n. 20m. P.M. at an altitude of 33°.

During the month he is moving quickly towards the Eastward. On the 4th day he is 1°N. of Regulus; and he is moving E. from that star; on the 11th he is 27° S.S.E. of it; and at the same time he is 11°S.W. of Beta Leonis; on the 19th he is situated 10°S. of Beta Leonis.

VENUS will be in the constellation Virgo all this and next month. On the 1st she souths at 2h. 8m. P.M. at an altitude of 27°; and sets at 7h. 14m. P.M. midway between the W. by S. and W.S.W., points of the horizon. On the 15th she souths at 1h. 17m. at an altitude of 25° and sets at 6h. 7m. P.M. W.S.W. On the last day she souths at noon and sets before the Sun. On October 6th she rises with the Sun, and after that time before him, and she is the morning star.

From the beginning of the year Ill September 7th the motion of Venus will be Eastward among the stars; between the 7th and the 17th she will be stationary, occupying, during this time, the same relative position among them; after the 17th the rapparent motion will be in the contrary direction to that before the 7th; and it will be Westward among the stars.

Between the 1st and the 21st she will be situated about 7° W. of Spica Virginis, and at the end of the montb she will be about 12° N. of the same star.

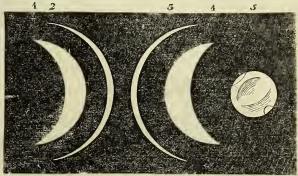
During the evening of the 11th day she will be about 10° S.S.W. of the Moon. Her appearance at the beginning of this month is shown at No. 1, in the accompanying engraving, at the end at No. 2, at the beginning of October at No. 3, and at the end of otcober at No. 4.

Mans will be in the constellation of Aries from the 1st till the end of the year.

Mass will be in the constellation of Aries from the 1st till the end of the year. He rises near the E.N.E. till the 15th, and at that point after the 15th. On the first at 8th. 50m.; on the 15th, at 8b. 1m; and on the last day at 6th. 59m. P.M. He souths at 4th. 1m., at 3th. 19m., and at 2th. 22m. A.M., on the same days, at an altitude of 13° on each day. From the beginning of the year to the middle of this month this planet has appeared to move Eastward among the stars; from the middle of this month to

the end he appears to be stationary, occupying the same position in the heavens relative to the fixed stars during that time. And generally he is about 10° N. of Alpha Ceti, and about 15° W. of the Pleiades. He will be, however, readily distinguished by his increasing brightness and the reduces of his colour. His appearance during this and the following month is represented at No. 5 in the appearance of him appearance of h nexed engraving, and by comparison with the drawings of him previously given with this the great change in his apparent size will be evident.

TELESCOPIC APPEARANCES OF VENUS NND MARS DURING THE MONTHS OF SEPTEMBER AND OCTOBER.—(See above.)



Seale 40" to an inch.

JUPITER will be in the constellation of Gemini. He rises near the N.E. by N. point of the horizon, on the 1st at 0h. 11m. A.M.; on the 4th he rises twice on the same day, viz., at 0h. 2m. A.M., and again at 11h. 59m. P.M., and on the last day at 10h. 35m. P.M. He souths at an altitude of 61°: on the 1st day at 8h. 22m. A.M.; and on the last day at 6h. 45m. A.M. On the 1st day he is situated nearly as on the last day in August; during the month he is moving slowly towards Castor and Pollux, being on the last day 10° due S. of the former, and 6° from the latter. During the month of October he is similarly situated towards these

stars.

SATURN rises midway between the E. by S. and the E S.E. on every day. On the 1st day at 6h. 53m. P.M., being only 9 minutes after the sun has set; on the 3rd day the Planet rises at the same time as the Sun sets; and after this time the Planet rises before the Sun sets. On the last day he rises at 4h. 51m. P.M. He souths on the 1st day at 0h. 9m. A.M. And on the last day at 10h. 4m. P.M. His motion among the stars, and his situation, is nearly the same as in last month; the only difference being that he will bave receded from Alpha Pegasi and apaproached Fomalhaut by 1°.

URANNS rises at 1°S. of E. by N. throughout the month, at 7h. 48m. P.M. on the 1st, and at 5h. 52, P.M. on the last day. He souths at 1h. 31. A.M. on the 15th.

TIMES OF THE SOUTHING, &c., OF THE PRINCIPAL FIXED STARS WHICH PASS THE MERIDIAN BEFORE MIDNIGHT.

1. 3,	Stars' Names.	Magnitude.	Time of	f south- ing the	above the	Set	ting.
r.		Mag	lst.	Day.	S(South). N (North)	Number of hours from southing.	Point of the horizon.
e l			H.	M.		н.	
ι.	Alpha Lyræ	1	7	50	77°s	Never Sets	
it [Alpha Aquilæ	1	9	1	47s	63	Near W. by N.
ш	Alpha Cygni	1	9	54	83s	Never Sets	1
S	Alpha Cephei	3	10	33	79N	Never Sets	
0	Epsilon Pegasi	2	10	54	488	$6\frac{3}{4}$	Near W. by N.

ays of the Month.	Length of Day, or number of		Time of Day break.	Time of Twilight	JUPITER'S	SATELLITES.	0	CCUL	TATIONS OF STARS BY THE MO	ON.
Days	hours be- tween Sun- rise and Sunset.		or heginning of Twilight.	ending.	lst. Sat. Immersion.	2nd. Sat. Immersion.	Names of the Stars.	Magni- tude.	Times of disappearance and re-appear ance of the Stars.	At the dark or bright limb of the Moon.
1 6 11 16 21 26 30	H. M. 13 33 13 14 12 54 12 54 12 35 12 15 11 57 11 42	H. M. 3 1 3 20 3 40 3 59 4 19 4 37 4 52	H. M. 3 6A.M. 3 18 3 30 3 40 3 50 3 59 4 6	H. M. 8 53P.M 8 38, 8 22, 8 9, 7 55, 7 44, 7 34,	D. H. M. 12 2 41 A.M. 19 4 34 ", 28 0 56 ",	D. H. M. 10 1 56 A.M. 17 4 32 ,,	N. Tauri 75 Tauri Aldebaran	6 6 1	p. H. M. 3 0 42 A.M. 1 38 ", 28 10 29 P.M. 11 8 ", 29 2 28 A.M. At this time the Star will be very near the upper edge of the Moon and it may prove to be an occultation; if so, it will disappear at a point a little to the right of the lighest point of the Moon, and become visible again a few minutes afterwards	3

September 7th, after midnight the four Satellites of Jupiter are E.; and on the 10th day they are W. till the 2nd Satellite passes bebind the Planet at 1h. 56m

ļ	A.M. (as above); on the 11th day they are all	U W.	in the zn	Satellite	passes b	chind the	Planet at	4h. 32m.	A.M. (as	above).	_			
ı					RIGHT	ASCEN	SIONS A.				HE PLA	NETS.		
l	And when she is at her greatest distance	등학	MERC	URY.	VEI	NUS.	MA	RS.	JUPI	TER.	SATU	JRN.	URA	NUS.
1	(Apogee), or at her least distance (Perigee) from the Earth in each Lunation.	Days of Month	Right Ascension	Declina- tion North	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North.	Right Ascensiou	Declina- tion North,	Right Ascension	Declina- tion South.	Right Asceusion	Declina- tion North,
	LAST QUARTER In. 9H, 14M, P.M.	1 6 11 16 21 26	9h. 40m 10 14 10 50 11 25 11 59 12 30	12 38 9 22 5 36 1 40	12h. 48m 12 53 12 54 12 52 12 47 12 38	11° 5′ 12 25 12 24 13 55 13 53 13 14	2h. 41m 2 46 2 50 2 53 2 55 2 55	12° 23′ 12 50 13 13 13 31 13 44 13 53	7h. 1m 7 5 7 8 7 11 7 14 7 17	22 33 22 28 22 23	22h. 48m 22 46 22 45 22 44 22 42 22 41	9° 52′ 10 0 10 9 10 18 10 26 10 33	1h. 6m 1 6 1 5 1 4 1 4 1 3	6° 19' 6 16 6 12 6 8 6 4 5 59

September Anniversary.



THE LORDS AND COMMONS AT WHITEHALL DECLARE THE THRONE VACANT BY THE FLIGHT OF JAMES,

ABDICATION OF JAMES II.

ABDICATION OF JAMES II.

In the death of James the Second, which occurred at St. Germains on the 16th September, 1701, it has been truly said that "Britain was happily delivered from the perverse and incurable dynasty of the Stuarts." James was a weak and narrow minded higot, with a cold and ungenerous temper, and from the time he ascended the throne, seems to have acted with a steady determination to render himself absolute, and to proceed hy every direct and indirect means to overthrow the established church. But these innovations in religion and government gradually united opposing interests, and a large body of the nohility and gentry concurred in an application to the Prince of Orange. All confidence being destroyed between the King and the people, it hecame an easy and safe invasion, and James was compelled to seek safety by flight on the night of the 13th of December, 1688. He crossed the Thames at Lamheth, and made his way with all speed to Feversham, where he embarked in a Custom-house hoy. It blowing a strong gale at the time, the master of the little vessel wanting more hallast, ran into the western end of the Isle of Sheppy, where the people seized the disguised King as a pugitive Jesuil, treating him with proportionable rudeness, and carried him hack a prisoner to Feversham. Then he made himself known; told the rabble, who had been calling him "a hatchet-faced Jesuit," that he was their King, procured pen, ink, and paper, wrote a note to Lord Winchilsea, the Lieutenant of the county, who hastened to him to rescue him out of the rude hands of that rabble rout of fishermen, sailors, and smugglers, who took his money, but refused to let him go. Never, perhaps, dida fallen despot present so miserable a spectacle. His mind was a complete wreck: he told the mob that the Prince of Orange was seeking his life, and he screamed for a boat! a hoat that he might escape. When he was conducted by Lord Winchilsea from the public honse to a private honse in the town, he fell a weeping, and deplored his great misfo

James was enabled in March, 1689, to make an attempt for the recovery of Ireland. The battle of Boyne, fought in June 1690, compelled him to return to France. All succeeding projects for his restoration proved equally abortive, and, on the 25th of December the lords spiritual and temporal, to the number of about ninety, who had taken their places in the House of Lords, requested William to take upon him the administration of affairs and the disposal of the public revenue

and to issue writs for a "Convention" to meet on the 22nd of January; and on the following day an assembly of such persons as had sat in Parliament in the reign of Charles II., to the nursher of ahont a hundred and fifty, together with the Aldermen of London and fifty of the Common Council, having met at St. James's pursuant to the desire of the prince, immediately proceeded to the Commons' House, and there agreed upon an address similar to that of the Lordon. The prince despatched circular letters, accordingly, to the several counties, universities, cities, and horoughs; and in the meantime the country, the feet, and all that remained of James's army, submitted quietly to his authority. In Ireland it was very different; but in Scotland men were as prompt in their obedience as in England. ence as in England.

land it was very different; but in Scotland men were as prompt in their obedience as in England.

The two Houses then adjourned to the 28th, on which day the Commons, having re-assembled, resolved themselves into a Committee of the whole House to take into consideration the state of the nation. Mr. Hampden was in the chair. Dolben, son of the late Archbishop of York, "was the hold man who first hroke the ice, and made a long speech tending to prove that the King's deserting his kingdom without appointing any person to administer the government, amounted, in reason and judgment of law, to a demise." This opinion was taken up and defended hy several other members. The Tories, including Sir Edward Seymour, who had been one of the first to join the Prince of Orange, made a vain effort to procure an adjournment; and the Committee, after a stormy dehate of many hours, voted the resolution—"That King James II., having endeavoured to subvert the constitution by breaking the original contract between king and people, and, by the advice of Jesuits and other wicked persons, having violated the Government, and that the throne is thereby become vacant." Mr. Hampden was ordered to carry up this resolution to the Lords, and to request their concurrence, which they finally gave on the 12th of February. The penances and mortifications to which James subjected himself hastened his end, and he had heen dying all the summer of 1701. On Friday, the 2nd of Sept., a few days before the conclusion of the grand alliance, he was seized with a fainting fit in the chapel of the palace of St. Germain. He was pretty well the next day, but on Sunday he fell into another fit and lay for some time without life or motion. James lingered till the following Friday, the 16th of September, and then expired in the 67th year of his age. His hody lay exposed four-and-twenty hours in the midst of priests and monks, who sang the office for the dead all the night through, and in the morning celebrated masses at two altars erected in the room. The hody wa

SEPTEMBER.

In this month the autumnal flowers begin to come into blossom. The different kinds of small-flowered asters, called Michaelmas daisies, are now in flower; and the pale purple flowers, on long naked tubes, of the colchicum, or autumnal crocus, now begin to appear. In the gardens, the dahlias are in all their splendour, the Allhea frutex, and the hollyhocks. It is at this season that the saffront is gathered. It is the stigma of a kind of crocus (Crocus autumnails), which is taken out and dried. This crocus, though it flowers in autumn, is quite a different plant from the colchicum; and it may be known by the stigma projecting, through an opening in the flower, on one side. It is cultivated in fields, on a large scale, near Saffron Walden, in Essex, and in several other parts of Great Britain.

Britain.

Mushrooms, and various kinds of fungi, are in season in this month. Every fungus consists of a stem, which is called stipes, surmounted by a cap, or pileus, under which are a number of thin plates, arranged around the centre, like the radii of a star, and are called the lamellæ, or gills, and among which are placed the sporules, or seeds. The botanical name of the common eatable mushroom is Agaricus campestris; but there are several other species of Agaricus, which are poisonous, when eaten in a fresh state. In Russia and Poland, however, nearly all the kinds of Agaricus are eaten; as they are first dried, and then reduced to powder, and it is principally their acrid juice that renders them unwholesome. The trne mushroom appears, when young, in the shape of a button, with a white kin coming down from the cap to the root, so as to hide both the stem and gills. As the stem grows, the white skin, which is called the veil or curtain, bursts, and the gills appear of a beautiful pink, which contrasts strongly with the whiteness of the cap. As the mushroom becomes older, the gills become of a dark liver colour, and the skin of the cap loses its whiteness and smoothness, and turns brown and rough; while, when it is still older, the rim of the cap curls up on the outside, the gills turn black, and the whole mushroom becomes perforated with insects. When the mushroom is in this state, it is called a flap, and it is unfif for any use but making into catsup. It is reckoned most wholesome just after the veil has burst, and the gills appear. Truffles are found in this month, in some parts of England, generally in beech woods. They are tubers which grow underground, like potatoes; only, as they send up no stalk, they are very difficult to find. In Germany, they train dogs and pigs to hunt for truffles; and, when these animals discover them by their smell, they begin to scratch the ground, and the wild bards that while england in the autumn appear in this

Many of the wild birds that visit England in the autumn appear in this month; and, among others, various kinds of wild ducks and geese. They come in flights, and are very noisy in the air; their perpetual clamour being supposed to be designed to prevent them from dispersing and losing their companions. As in this month partridge-shooting begins, it may be interesting to say a few words on these well-known birds. Young partridges interesting to say a few words on these well-known birds. Young partridges may frequently be seen running as soon as they are hatched, and sometimes even with the remains of the shells upon heir heads. The hen partridge feign itself wounded, and run along the ground, fluttering and crying, before either dog or man, to draw them away from its helpless, unfledged young ones." Partridges are found in all parts of Great Britain, where corn is cultivated, but never at any great distance from corn-fields. The hen partridge makes no proper nest, but only scrapes a little hollow in the ground, in which she lays from twelve to twenty eggs. The young partridges in one broad generally fly together, and are called a covey. In Scotland partridges are only found in glens and valleys, while the grouse and ptarmigan are on the hills. Another species of this genus, generally called the red-legged or Guernsey partridge, is found in Suffolk, and in some other parts of England. These birds are larger than the common species; the bill, the legs, and the feet, are of a bright red, and there is a good deal of red in the plumage. They are reckoned very fine in France, but are not much admired in this country. and the feet, are of a bright red and there is a good deal of red in the plumage. They are reckoned very fine in France, but are not much admired in this country. Their habits are very different from those of the common partridge, as they frequently roost on trees, and will breed in confinement. Most of the migratory birds that leave England for the winter depart in this month; and some of those birds which remain in England during the winter, and which become silent about Midsummer—such as the thrush, the blackbird, the woodlark, and the willow-wren—resume their song in September. The male redbreasts that were hatched in spring, also begin to sing in this month, after they have moulted and acquired the red feathers on the breast. Before that period, the young are scarcely to be distinguished from those of the redstart, particularly the blue-throated kind; though after they have moulted, and the one has acquired its pulle feathers, and the other its red once, scarcely any two birds can be more blue feathers, and the other its red ones, scarcely any two birds can be more distinct.



THE BLUE-THROATED REDSTART.

In this month all kinds of shell fish are in high sesson. Oysters, it is true, are allowed to be sold in August; but they are not considered to have attained their full flavour before September. Oysters are so common that few people think of the peculiarities of their construction, which is, in fact, very curious. The oyster

is a molluscous or soft-bodied animal, of the kind called Acephalus, or non-headed, as it has no distinct head. The gills, or breathing apparatus, form what is commonly called the beard of the cyster. The creature is attached bystrong muscles to its shell, which, as it consists of two parts, or valves, is called a bivalve, to distinguish it from those which are in one part, like that of the snail, and which are called univalves. The mouth of the cyster is a mere opening in the body, without jaws or teeth, and its food consists of nourishing substances which may be in the water, and which are washed into the shell when it is open. Oysters attach one of their valves to rocky ground, or some fixed substance, by means of a mucilaginous liquid which soon becomes as hard as the shell. Oysters generally spawn in May, and their growth is so rapid, that in three days after the deposition of the spawn the shell of the young cyster is nearly a quarter of an inch broad, and in three months it is larger than a shilling. The animal of the cyster appears to be extremely inanimate: it fixes itself to any object that may be near, being sometimes found attached to the back of a living lobster or crab, and frequently to the roots of trees. Craw-fish, lobsters, crabs, shrimps, and prawns, though generally called shell fish, do not belong to the same class of animals as the cyster, but to the Crustaceæ, because they are covered with crust-like shells. They also belong to the class of animals called Articulata, and have their bodies articulated, that is, jointed, so that they can stretch them ont or curl them up at pleasure. A crustaceous animal consists of three parts—the head, the carapace, which is covered with one entire shell, and what is popularly called the tail, which consists of seven rings, or joints. There are fourteen rings in that part of the body which is called the carapace, which is to enable the animal to spring forward, which if does frecuently when it wishes to change its position. It can also crawl, but it moves is a molluscous or soft-bodied animal, of the kind called Acephalus, or nonjoints in the tail are to enable the animal to spring forward, which it does frequently when it wishes to change its position. It can also crawl, but it moves in this manner awkwardly, and in an oblique direction. The river craw-fish belongs to the same genns (Astacus) as the lobster, and both have long tails, which longs to the same genns (Astacus) as the lobster, and both have long talls, which are spread out when they crawl, and numerous legs and claws, with which they can pinch severely when they wish to defend themselves. The crab has a short tail, and belongs to the genns Cancer. The shrimp, though it has no claws, properly so called, has two feet larger than the others, each of which has a hooked jointed nail. The prawn, which is quite different from the shrimp, is nearly allied to the crayfish, or thorny lobster. All the Crustacæ have the power of renewing their claws if they are torn off at a joint, and they change their shells every year. The new shell is at first quite soft, and at that period the fish are unwholesome to eat. The females spawn in July and August, and soon after great numbers of the little Crustaceæ may be found swimming about in their proper forms, sometimes not more than half an inch in length.

Abundance of spiders are found at this season. Spiders are articulated animals, and possess the same power of renewing a lost limb as the crustaceæ. The diadem spider (*Epeira diadema*) is one of the largest of the British kinds. It is a quadem spheer (Epeira anaema) is one of the largest of the British Rinds. It is a garden spider, and is easily recognised by the beautiful little gem-like marks on its body and legs. The web of this spider is found in great abundance during the months of August, September, and Octoher. "The top line of this web," Mr. Westwood observes, "appears to be first spun, either by attaching a thread to a neighbouring tree, and then carrying it along until it is of sufficient length, when it is attached to some adiagent, which the spider has regarded on it is attached to some adjacent object to which the spider has crawled, or by throwing out a floating line, whilst the spider remains stationary, the action of the air carrying this line on until it becomes attached to some object, when, it either case, it is doubled and redoubled until it is of sufficient strength to bear the weight of the intended fabric, together with the spider itself. The other outer threads of the frame work are then added, and then cross lines carried from one the weight of the intended abric, together with the spider itself. The other outer threads of the frame work are then added, and then cross lines carried from one point of the web to another exactly opposite, forming a complete series of spokes or radii, which she then attaches together by a spiral series of transverse bars of a more glutinous thread." The rapidity with which these webs are constructed is astonishing, as is also the accuracy with which the webs are formed. There are many different kinds of spiders, but nearly all of them envelope their eggs in a covering of silk, forming a round ball, which the spider takes care to hang pi in some sheltered place till the spring. The mode in which the ball is formed is very curious: the mother spider "uses her own body as a gauge to measure her work, in the same way as a bird uses its body to gauge the size and form of its nest. The spider first spreads a thin coating of silk as a foundation, taking care to have this circular by turning round its body during the process. It then, in the same manner, spins a raised border round this till it takes the form of a cup, and, at this stage of the work, it begins to lay its eggs in the cup, not only filling it with these np to the brim, but piling them up above it into a rounded heap, as high as the cup is deep. Here, then, is a cup full of eggs, the under half covered and protected by the silken sides of the cup, but the upper still bare and exposed to the air and the cold. It is now the spider's task to cover these, and the process is similar to the preceding, that is, she weaves a thick web of silk all round them, 'and, instead of a cup-shaped nest like some birds, the whole eggs are enclosed in a ball much larger than the body of the spider that constructed its."—(Penny Cyclopoxidus.) In fine weather, the female dragon-files may some times be seen in this month depositing their eggs, which they lay in water, making a strange noise, as though they were beating the water while they are depositing their eggs; and the grapes. The larve, when hatched, live in the water, and it is scarcely possible to fancy more disgusting-looking creatures. They are short, and comparatively thick, and their motions are heavy and clumsy. They soon shed their skins, and become pupe, still coutinuing to live in the water. The pupe of the dragon-fly become pupe, still continuing to five in the water. The pupa of the dragon-fly differs from the larva, principally in having four small scales on its sides, by which the future wings are concealed. While the dragon-fly continues in its aquatic state, both as larva and pupa, it devours all the insects it can catch; but as it can only move slowly, it is furnished with a very curious apparatus to tis head, which it can project at pleasure, and which it uses as a trap. This apparatus consists of a pair of very large, jointed, moveable jaws, which the insect keeps closely folded over its head, like a kind of mask, till it sees its prey; when it does, it creeps softly along till it is sufficiently near, and then it darts out those long, arm-like jaws, and seizing the insects it had marked, it conveys them to its mouth. When the dragon-fly emerges from its pupa case, it places itself on the brink of the pond, in which it has existed in its previous state, or on the leaf of some water-plant which is sufficiently strong to bear its weight, and there it divests itself of its pupa case, which, as it afterwards lies on the bank, looks exactly as though the insect were still contained in it. The its weight, and there it divests itself of its pupa case, which, as it afterwards lies on the bank, looks exactly as though the insect were still contained in it. The insect, when it first appears, has two very small wings, but they gradually swell out, the veins in them appearing to fill with some coloured liquid, and two other wings gradually appear. As soon as the wings are fully expanded, and have attained their beautiful gauze-like texture, the dragon-fly begins to dart about, and to catch any poor unfortunate insect that may fall in its way. A dragon-fly may sometimes be seen flying about with an insect in its mouth so much larger than its own head, that it is difficult to imagine how it will contrive to swallow it. The mouths and stomachs of dragon-flies are, however, gifted with an extra-ordinary power of distension; and thus, however large the captured fly, moth, or butterfly, may be, it disappears, as though by magic.



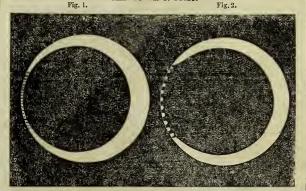
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14 TH Fomalhaut souths at 9h. 17m. 6 24 5 8 8 1 11 14 3 44 8 13 5 5 4 50 13	9 287
15 F Jupiter rises 9h. 43m. r m. 6 25 5 6 8 24 Afternoon 4 34 9 3	2 288
16 S Saturn sets 2h. 9m. A.M. 6 27 5 4 8 46 0 58 5 26 10 2 7 5 50 6 10 14	5 289
17 S 20TH S.AFT. TRIN. 6 28 5 2 9 8 1 36 6 19 11 7	3 290
18 M St. Luke 6 30 5 0 9 30 2 12 7 12 Morning 9 7 35 8 15 14	0 291
19 Te The Sun in Libra 6 314 58 9 52 2 46 8 6 0 19	1 292
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31 S 22ndS.aft.Trin. 6 53 4 34 14 1 11 53 6 14 1 29	303 4 304

OCTOBER.

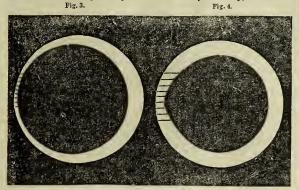
The Moon is new at 7 minutes after 9 o'clock in the morning of the 9th, and as the line drawn from the Earth to the Sun nearly passes through the centre of the Moon, an Eclipse of the Sun takes place; and as the Moon at the time is nearly in Apogee, or at her greatest distance from the Earth, her dismeter appears to be less than that of the Sun, and consequently the Eclipse is annular. She enters her 1st quarter at 21 minutes after 7 on the morning of the 17th; she is full at 36 minutes after 11 in the evening of the 23rd, but without an eclipse; and she enters her last quarter on the 30th at 56 minutes after 9 o'clock in the evening.

enters her last quarter on the 30th at 56 minutes after 9 o'clock in the eventing. A total and annular eclipse of the Sun, at any particular place, is an event of a very rare occurrence, since not more than half a dozen have been recorded as having been seen in Enrope since the invention of the telescope. The accounts of these are discordant in several particulars; probably owing to the sudden and unexpected appearances that have pervented themselves. The difficulty arising from this circumstance, with respect to the phenomena that may be expected in future eclipses, is much increased from the want of drawings to represent the exact appearances that have been seen. As such, however, are much more readily understood than any verbal description, we shall collect thuse that have been made, and hope by this means that the several phenomena will be fully comprehended, and that persons beforehand may know what phenomena may be expected, and have an opportunity of confirming, or otherwise, by their testimony, expected, and have an opportunity of confirming, or otherwise, by their testimony, as to those which may happen.

APPEARANCE OF THE SUN AT THE ANNULAR ECLIPSE OF 1836, MAY 15, AS SEEN BY MR. F. BAILY.



In 1836, on May 15, an Eclipse of the Sun was annular at Jedburgh, in Rox-burgshire; and Mr. Baily, late President of the Royal Astronomical Society, went there for the purpose of witnessing certain singular appearances which lad been recorded as having taken place in former Eclipses. Baily, in an account



of the observed phenomena, furnished to the Astronomical Society, observes, "when the cusps of the Sun were about 40° asunder, a row of lucid points, like a string of bright beads, irregular in size and distance from each other, suddenly formed round that part of the circumference of the Moon that was about to enter, or which might be considered as having just entered, on the Sun's disc. Its formation indeed was so rapid that it presented the appearance of having been caused by the ignition of a fine train of gunpowder. (See Fig. 1.) My surprise, however, was great on finding that these luminous parts, as well as the dark intervening spaces, increased in magnitude, some of the contiguous ones appearing to run into each other likedrops of water: for, the rapidity of the change was so great, and the singularity of the appearance so fascinating and attractive, that the mind was for the moment distracted, and lost in the contemplation of the scene. (See Fig. 2.) Fioally, as the Moon pursued her course, these dark intervening spaces were stretched out into long, black, thick, parallel lines. (See Fig. 3.) Fig 4 represents a continuation of the same phenomenon; when, all at once, the long threads suddenly broke and wholly disappeared, leaving the circumferences of the Sun and Moon in those points, as in the rest, comparatively smooth and circular; and the Moon perceptibly advanced on the face of the Sun.

"After the formation of the Annulus thus described, the Moon preserved its usual circular outline during its progress across the Sun's disc, till its opposite silmb again approached the border of the Sun, and the annulus was about to be dissolved. When (all at once,) the limb of the Moon being at some distance from the edge of the Sun, a number of long, black, thick parallel lines, exactly similar in appearance to the former ones above mentioned, suddenly darted forward from the

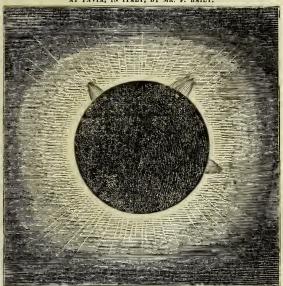
Moon and joined the two limbs as before: and the same phenomena were thus repeated, but in an inverse order

peated, but in an inverse order."

On July 8th, 1842, a total Eclipse of the Sun took place, and Mr. Baily went to Pavia, in Italy, to observe it. In an account of the phenomenon from him to the Royal Astronomical Society, Mr. Baily remarks: "I at first looked out very narrowly for the black lines which were seen in the annular Eclipse of 1836, as they would probably precede the string of beads. These lines, however, did not make their appearance; or, at least, they were not seen by me. But the beads were distinctly visible; and on their first appearance I had noted down on paper, the time of my chronometer, and was in the act of counting the seconds in order to ascertain the time of their duration, when I was astounded by a tremendous burst of applause from the streets below, and at the same moment was electrified at the sight of one of the most brilliant and splendid phenomena that can wurrounded with a corona, or kind of bright glory, similar in shape and magnitude to that which panters draw round the heads of saints, and which by the French is designated ar auréole. French is designated ar auréole.

APPEARANCE OF THE TOTAL ECLIPSE OF THE SUN ON JULY 8, 1842, AS SEEN

AT PAVIA, IN ITALY, BY MR. F. BAILY



"Pavia contains many thousand inhabitants, the major part of whom were at this early hour, walking about the streets and squares, or looking out of windows, in order to witness this long talked of phenomenon; and when the total obscuration took place, which was instantaneous, there was a universal shout from every observer, which "made the welkin ring," and for the moment drew my attention from the object with which I was immediately occupied. (See Figure). I had indeed anticipated the appearance of a luminous circle round the Moon during the time of total obscurity; but I did not expect from any of the accounts of preceding eclipses that I had read, to witness so magnificent an exhibition as that which took place." Mr. Baily then proceeds to say that the most remarkable circumstance attending this phenomenon, was the appearance of three large protuberances, apparently emanating from the circumference of the Moon, (See Figure,) and he remarks that his attention was so constantly taken up by the remarkable and unexpected appearances, that he omitted to watch for the reappearances of the beads, and, therefore, he could not add his testimony to the recurrence of that phenomenon. recurrence of that phenomenon

At page 52 is a cliart showing the parts of France, England, and Ireland, that the At page 32 is a chart showing the parts of France, England, and release, that the Eclipse will be annular. At all places situated on, or near the central line, the Eclipse will be central and annular, the ring appearing of the same dimensions all round, or nearly so. At all places situated between the central line and those N. and S., marked respectively northern and southern limit, the Eclipse will be annular, but the ring will be of uneven dimensions, and it will be of shorter duration. At all places beyond those limits the Eclipse will not be annular, a partial solution will be place and the further removed the place may be, the less cellipse will only take place, and the further removed the place may be, the less the eclipse will be. At all places N. of these lines a portion of the upper part of the Sun will be visible; and at all places S. of those lines, a portion of the lower part of the Sun will be visible. The times at which the several successive steps in the phenomena bannen are mentioned below for different places.

	the phenomena nappen	are me	пионеа ве	erow for a	merem p	aces.		
-	Phases of the Eclipse on Oct. 9, 1847.	Lon- don.	Cam- bridge;	Edin- burgh-	Dublia.	Havre.	Paris.	Col- mar.
e	The Sun rises at . The Eclipse begins at . Formation of the ring . Greatest eclipse . Rupture of the ring . End of the Eclipse . Duration of the ring . Duration of the Eclipse . Duration of the Eclipse at places where no ring is formed .	7 27½ 7 28 8 48½ 1½ 2 34½	No ring 8 49 ¹ / ₄ A partial eclipse	eclipse 2 29 3-4ths of the lower limb	H. M. 6 16 5 51 No ring 7 1 No ring 8 20 A partial eclipse 2 29 9 10ths of the lower limb	2 35	H. M. 6 12 6 21 7 32 7 34 2 7 38 3 8 58 612 2 37	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
			Continued	Jage 00	/			

THE TIMES OF THE BEGINNING AND ENDING OF THE ECLIPSE AT THE FOLLOWING PLACES MAY ALSO BE FOUND USEFUL.

	Altona.	Berlin.	Bonn.	Breslau.	Gottingen.	Gotha.	Konigsberg.	Manheim.	München.	Pulkowa.	Vienna.
Beginning . Ending . Prop. of the Sun's diam. eclipsed	н. м. 7 11 9 52 5-6tlis	н. м. 7 25 10 10 5-6ths	н. м. 6 55 9 37 11-12ths	10 30 5-6ths	H. M. 7 7 9 52 5-6ths	н. м. 7 12 9 56 11-12ths	H. M. 8 1 10 47 3-4ths	H. M. 7 0 9 43 11-12ths	н. м. 7 11 10 0 11-12ths	н. м. 8 56 11 35 7-12ths	н. м. 7 33 10 26 11-12ths

October Anniversary.



A DOMESTIC ANNIVERSARY.

THE FIRST FIRE OF THE SEASON.

THE lighting of the first fire for the season is one of the annual events of the domestic circle; the evenings shorten in and a sort of general chilliness becomes very perceptible, but there is a wish to prolong the very appearance of summer as long as possible, so there is a delay in ordering in the coals; but delay avails nothing—the sky becomes more and more Novemberish, and though it is only October by the almanack, yet it is voted winter by general consent, or rather general feeling, and the scene our artist has sketched is the result, we hope multiplied through thousands of happy households. The "old folks" tell us that they remember when the good people of the city never made themselves comfortable till "Lord Mayor's day"—that great civic event—however cold the weather might be before the 9th of November. How they must have envied the cooks of the Guidhall Banquet, though in all the pride of self-dental they were above the weakness of confessing it! Perhaps Winter was tardier in his arrival in those days, and only sent a wholesome kind of "fine hracing air" till a day or two before the important 9th, when he would commission a smart frost to harden the roads for the procession, keep the shoes of the city flootmen clean, and sharpen the noses and appetites of all parties present. Then it was considered winter, and it was orthodox to handle the poker and coal-skuttle. We are a more impatient generation, and do not choose to let our teeth chatter in our heads till his Lordship has paid his morning call to the Judges at Westminster. Every age has its prejudices, but we cannot help thinking our plan is the most rational—to light up the hearth when it is required, without regard whether it is "a day before or a day after" any event at all. So put on some more coals! nothing-the sky becomes more and more Novemberish, and though it is only a day after" any event at all. So put on some more coals!

The air bites shrewdly, it is very cold; It is a nipping and an eager air!

There! now we begin to look comfortable, and to feel so also; and having broken a solid lump of the "heat-diffusing" substance, as Homer would have called it if he had ever sung of coals, for the mcre sake of seeing the flame, we find ourselves warming into poetry, which thus breaks forth into—A Song for THE SEASON.

THE FIRST FIRESIDE.

THE F
The Spring may boast its vernal how'rs,
Its closing shades and opening flow'rs—
Its songs of hirds from moning hours
To eventide!—
Give me the homely joys we greet
When, fill'd each hospitable seat,
Some kindred spirits kindly meet
'Round First Fireside.

Let Summer shed her burning glow
To melt the chilly mountain snow
And make the vailey-streamlets flow
Let use the stream to make
She hath not such a charm to make
The drooping heart so sweetly take
A part in mirth for mirth's own sake
As warm FIRESINE!

Rich Autumn with her golden store,
Msy count her treasures o'er and o'er,
And say such wealth did ne'er before
The land hetide—
But in a snug and shelter'd room
Where neither mind's nor season's gloom
Can blight our joyous—mental bloom—
Give me—Fraksink

FIRESIDE.

Now fruits and flowers, and yellow sheaves
Are gather'd in, and wither'd leaves
Be all the traveller's eye perceives
In prospect wide—
How sweet to ramble through some hook,
Or chat with social friends in nook
From which we have the cheering look
Of good FIRESIDE.

And then to send the glass around,
And have the happy meeting crowe'd,
With some old ditty's cordial sound,
To oft deuled—
To melodies of greater skill,
That have no power, if they've the will
To touch our hearts like those that thrill
'Round old Kibeside.

Then hail the genial season, hail!
O'er mild October's nut-brown ale,
Let's sit and hear the merry tale,
Let's sit and hear the merry tale,
Which may the passing hour engage
Of life we'll con the varied page,
And hope for happy good old age
By our Firesins.

OCTOBER.

THERE are few plants in flower in the month of October, but many are very ornamental in their fruit or seeds. Almost all the American crategi are more ornamental in their fruit than in their flowers, the flowers in many cases differing very little from those of the common hawthorn; while the fruit is as large as a small apple, and is either of a hright yellow or dark scarlet, heing in either case very ornamental. The mountain ash is now, as Wordsworth expresses it,

Deck'd with autumnal herries that outshine Spring's richest blossoms.

The white beam tree, and other plants of the same genns, are also covered with their scarlet herries. In the mountain districts, different kinds of juniper, biherries, whortleherries, crowberries, and other dwarf moor plants, are in fruit. In the forests, the trees have now taken their autumnal tints: the lime is a pale orange; the maple, poplar, and hirch, light yellow or straw colour; the wild cherry, the crab, the dogwood, the spindle tree, the guelder rose, and the five-leaved ivy, different shades of red; the elm, a dull hrown; the horse chestnut and beach, a reddish brown; and the oak, vellow and brown. Some trees change heech, a reddish hrown; and the oak, yellow and hrown. Some trees change very little, particularly those which grow near water, such as the willow and the alder; and others change very much, such as the sycamore, which Cowper well

"Capricious in attire;
Now green, now tawny, and ere autumn yet
Has changed the woods, in scarlet honours hright."

The ash seldom becomes beautiful in autumn, the leaves generally falling with the first frost, or hecoming shrivelled up as if scorched. The heech, on the contrary, is perhaps one of the most beantiful of all trees in its autumnal tints, which display various shades of the richest yellows and hrowns, and which frequently retains its withered leaves till the following spring.

The leaves of the bornheam take almost the same colour as those of the beech, and they remain on nearly as long. In pleasure-grounds the leaves of the liquid-amhar turn of a rich crimson; those of the Diospyros Lotus hecome pink heneath in autumn, and fall off altogether with the first frost. Thus, the tree may he clothed with leaves at sunset, and, after a frosty night, it may be found the next morning at sunrise entirely bare, the leaves lying in heaps upon the ground. The American caks take heautiful colours in autumn; the leaves of the scarlet cak hecome scarlet: those of the red oak and some other kinds crimson; and those of the white oak violet. Some of the other kinds hecome almost black, and some yellow. A very good effect may he produced in plantations by attending to some yellow. A very good effect may be produced in plantations by attending to the autumnal colours of the leaves of trees. Most of the ferns are very heautiful at this season, from the rich brown of the sori, or clusters of seed cases at the back of the leaves.

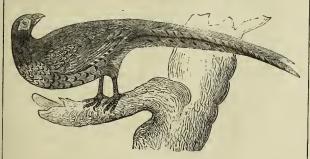
back of the leaves.

In this month, numerous kinds of fungi appear. One of the most conspicuous of these is the fly-agaric, which, though it belongs to the same genus as the mashroom, is one of the most poisonous of all the kinds of fungus. This plant is large, and very handsome, having a hright scarlet cap, studded with pearl-like projections of a hrilliant white. The botanists who have named the plant have, however, fancied that the white projections look like the maggots of flies, and hence the name of My-agaric, though others derive the name from a decoction of the plant heing sometimes used to poison flies. The itusians are said to make an intoxicating liquor with it, called Moncho More, and which hrings on convulsions and raving madness, if drunk to excess. The Hydnum, or tree fungus, is found in woods, generally growing on the roots of trees. There are several kinds of this fungus, some of which are dried and powdered, and then eaten, in Sweden, and some of the other northern countries. and some of the other northern countries.

Various kinds of lichens are also extremely beautiful at this season, and some Various kinds of lichens are also extremely beautiful at this season, and some of the most curious of the mosses. Among these may be mentioned the dark green Hookeria, which is found in the south of Ireland, and near the waterfalls of Killarney. The leaves of this moss are broad, ending in a sharp point, and when they are examined in a microscope, they will he found to have two distinct midrihs, and the surface curiously reticulated. Another very heautiful moss which is found in the north of England and Scotland, and which is in fruit at this season, is the ostrich-plum moss (Hypnum crista castrensis). This is sometimes confounded with the crested feather-moss, which is common in rocky places in the chalky and limestone districts of Great Britain.

In this month pheasant-shooting hearins. Pheasants are found in most parts of

In this month pheasant-shooting hegins. Pheasants are found in most parts of England, hut they are less plentiful in the north than in the south; and in Scotland they are scarcely ever metwith. Woods and corn-fields seem to be essential to the existence of this bird. It is very fond of acorns and heech-mast, and it also eats ahundance of corn, sometimes even scratching up growing wheat, to hite of the grain still remaining at the root. Pheasants are very fond of the tubers of



THE COMMON PHEASANT.

one of the kinds of creeping crowfoot (Ranuculus bulbosus), a plant which is poisonous to human beings, from its extreme acridity. Pheasants will live in captivity, hut when they are domesticated, the male hird must he kept apart from the young ones, or he will destroy them. In a wild state, the female carefully hides her nest from the male. The pheasant is a dull hird, and, when roused, it will frequently perch upon the first tree near, which it will suffer the sportsman to approach closely hefore it flies away. In October, also, most of the migratory hirds who pass the winter in this country make their appearance, and, among others, the fieldfare and the redwing. These hirds appear in large flocks in October, and generally remain in England till April. "The extensive lowlands," says Mr. Knapp, "of the river Severn, in open weather, are visited by prodigious flocks of these birds; but, as soon as snow falls, or hard

weather comes on, they leave these marshy lands, hecause their insect food is covered, or hecome scarce, visit the uplands, to feed on the produce of the hedges, and we see them all day long passing over our leads in large flights, on some distant progress, in the same manner as our larks, at the commencement of a snowy season, repair to the turnip fields of Somerset and Wiltshire. They remain ahsent during the continuance of those causes which incited their migration; but, as frost breaks up, and even hefore the thaw has actually commenced, we see but, as frost breaks up, and even hefore the thaw has actually commenced, we see a large portion of these passengers returning to their worm and insect food in the meadows, attended, prohably, by many that did not take flight with them; though a great number remain in the upland pastures, feeding promiscuously as they can." The fieldfare is a kind of thrush; but, instead of singing melodiously, like the common thrush, it only utters a loud chattering noise. It has never heen known to breed in this country, notwithstanding the immense quantities that are seen here. It is a very shy hird, and will not live in a cage. Fieldfares, when fat, are reckoned delicacies for the table. The redwing is also a kind of thrush, of very similar habits to the fieldfare, coming over to England in great flocks. It feeds upon the herries of the hawthorn, and also upon various kinds of insects; and it is particularly fond of the handed snail (Helix nemoralis). the shell of which feeds upon the herries of the hawthorn, and also upon various kinds of insects; and it is particularly fond of the handed snail (Helix nemoralis), the shell of which it breaks against a stone or wall, in the same way as the garden thrush does. Like the fieldfare, it never huilds in this country. It perches on trees, and may occasionally be heard to sing, but its note is generally only a loud chattering. The ring ouzel generally leaves England in this month. It is singular enough that these hirds generally assemble in great numbers on the southern and eastern coasts of England for a week or two hefore they finally depart, as if they were half unwilling to go. The wheat-ear generally leaves England in this month, and shortly hefore their departure, great quantities of them are caught in Sussex and Dorsetshire, and sent to the London market. They "are caught in a singular manner, hy placing two turves on edge; at each end of which, a small horsehair noose is fixed to a stick, which the hird, either in search of food, or to evade a storm of rain, attempts to get under, and is caught. Upon inquiry of the shepherds, whose trade this is, we have heen informed that fifty or sixty of these traps have had a hird in them of a morning; sometimes several mornings together; and then for a day or two scarcely one is to he seen; and yet they are never observed to come in flocks: it is the general opinion that they come in the night." — (Ornithological Dictionary.) They are esteemed very delicate eating, and little inferior to the ortolan. inferior to the ortolan.

At this season of the year several kinds of molluscous animals are to be found in shallow water, in brooks and ditches. One of the most common of these is what is called the the horny coil shell, or Planorbis corneus. The shell of this creature at first sight looks like that of one of those little flat snalls which are



s like that of one of those little flat snails which are sometimes found in cellars; hut, on examination, it will be found to differ from these creatures in being exactly the same on hoth sides, or, in the language of a naturalist, having neither spire nor column. The animal helonging to this shell is extremely like a snail when it is crawling with its tentacula extended, but it is much smaller in all ex and nods. The super snail (Succine namely is.)

THE AMBER SNAIL. tentacula extended, but it is much smaller in all ts parts. It is found in ditches and ponds. The amber snail (Succinea amphibia), has a heautiful transparent shell of a light amher colour, and it is from this that it derives its scientific name, as succinum signifies amher. The puddle-mud shell (Lymæa peregra) is also very frequently found in this country. Its shell hears considerable resemblance to that of Succinea, but it is less transparent, and has a more horny look. The shells of all the species of Lymæa have the aperture on the right hand, and the plait on the left hand; which distinguishes them from Succinea. Another kind of pond snail, called the stream buhhle shell (Physa fontinalis), is distinguished from Lynnæa by its opening being on the left hand in stead of the right. All the pond snails have a singular manner of appearing to crawl under the surface of the water with their shells downwards. They also let themselves down in the water of appearing to crawl under the surface of the water with their shells downwards. They also let themselves down in the water with a thread, in the same way as some kinds of caterpillars let themselves down in the air. The common circle shell (Cyclostoma elegans) is found ahundantly in various parts of England and Wales, near hedges, and in other sheltered situations. The shell is of a greyish, and sometimes purplish hrown, occasionally marked with two rows of purplish hrown spots. The operculum is hard and horny externally, and marked with a slight spiral line. The animal is of a greyish brown, with tentacula, having hlack tips like those of the snail. The cry stalline marsh snail (Paludina viviparo), is often found in marshy places or ditches, at this season. The shell is of an olive green, with five whorls, the lower ones of which are very distinctly marked, and very much inflated; and it hears

of an olive green, with five whorls, the lower ones of which are very distinctly marked, and very much inflated; and it hears considerable resemblance to the apple shells often found in collections which are brought from Egypt. The animals resemble a snail, and they are viviparous. The shells of the marsh snails are found ahundantly in the river Colne, at Uxhridge; in the Thames; and in the rivers of Cambridgeshire, Oxfordshire, Essex, and Suffolk; but they are never found in the north of Expland or recent the cost. The river library (Angula, Angula) PHYSA England, or near the sea. The river limpet (Ancylus funcialis), is avery small shell, found in streams and rivulets attached to stones. The animal is greyish, and very lively. The shell is almost transparent, with a blue tinge inside, and a pointed top, which is on one side, and slightly curved downwards. These animals are sometimes seen swimming in the water, just below the surface, with the shell downwards, like the pond snail.

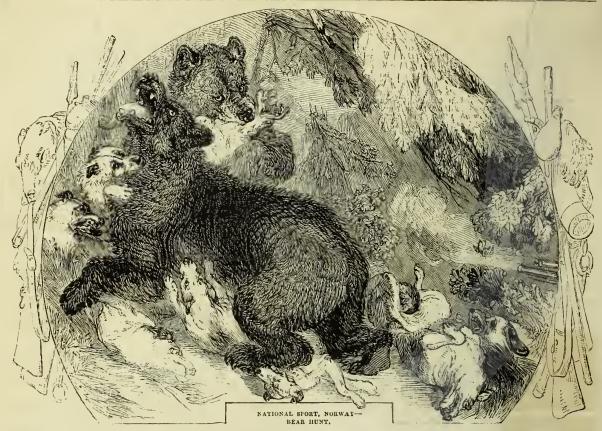
The insects which are most ahundant this month, are the different kinds of flies, particularly the common hlue-bottle, or hlow-fly, and the crane-fly, or daddy long-legs. The latter helongs to the genus Tipula, and is remarkahle for the extraordinary length of its legs. The hlow-fly produces its young alive, and they hegin to eat as soon as they are horn. A single hlow-fly has heen known to produce twenty thousand living maggots; and each of these continues eating so voraciously, that in twenty-four hours it has increased its own weight above two hundred times; and in five days it has attained its full size. When the maggots have attained their full size, they go into the pupa state, and remain in that only about five days. when they become flies ready to produce thousands of more have attained their full size, they go into the pupa state, and remain in that only about five days, when they become flies ready to produce thousands of more maggots, and afterwards flies, till the whole brood is destroyed by cold. The blue-hottle fly lays eggs, as does the common house fly. These eggs are generally deposited either in dunghills or other heaps of ruthish, from whence they issue in great quantities on a warm day. One kind of small two-winged fly lays its eggs on the leaf of the sow thistle, and the maggots live entirely upon the cellulat tissue of the leaf, without touching the outer skin, either on the upper or under side. These maggots generally commit their ravages in the maggot state, early in the month of October, and appear in their fly state towards the close of that month; but Professor Rennie found one of these mining maggots at work in December, on the leaf of a purple cineraria, grown in a not, and kent in the December, on the leaf of a purple cineraria, grown in a pot, and kept in the



FONTINALIS.

43

NOVEMBER, 1847.



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19		Sun in Scorpio	7	27	4 7	19 2		9 3	30 3	•			LI		_	11	0			14 3	-	23
20	S	St. Edmund	7	28	4 6	19 38	3 18	10 2	$27 \mid 4$	1/26			12			1		Noo		14 1	- 11	24
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27	S	The Sun rises S.E. hy E., and sets S.W. hy W.	7	39	3 56	21 /	9 39	4	6 11	30			19			5	5	5 3	30	12 1	7 3	31
	Ŝ	1ST S. IN ADVENT	7	40	3 55	21 16	10 44	4 !		59			20			5	50	6	15	11 5	8 3	32
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30	T_{U}	St. Andrew	7	111	3 5/1	$21 \ 37$	Midnight.	6°	$23 \mid 0$	48		1 1	122	40030000000		1	00	8	T.	11 1.	$\mathbf{a} = \mathbf{a}$	

NOVEMBER.

NOVEMBER.

The Moon rises after midnight, and hefore noon till the 13th, and between noon and midnight from the 14th to the end of the month. She sets hefore midnight till the 15th; and after midnight from the 17th. She is in Leo till the 3rd; is seen E. of Regulus; and she is moving towards a point a few degrees ahove Spica Virginis. On the 4th, 5th, and 6th, she is in Virgo, and in Libra on the 7th and 8th. On the latter day at 3h. 11m. A.M. she is new, but without an eclipse, as she is 3½ degrees from the line joining the Sun and the Earth. On the 9th and 10th she is in Ophiuchus; on the 11th, 12th, and 13th, she is in Aquiia. From the 9th, her crescent will he seen after sun-set, N. of E. From the 11th to the 13th she is passing a harren region. On the 13th she passes at a considerable distance under the principal stars in Aquiia. On the 14th, 15th, 16th, and 17th, she is in Aquarius. On the 15th she enters her 1st quarter. On the 17th she passes under the square of Pegasus, and at 6th. A.M. on the 18th, she is on the Equator, moving N. On the 18th, 19th, and 20th, she is in Arles, and moving directly to-wards Aldeharan. On the 21st, 22nd, and 23rd, she is in Taurus. On the 22nd, at Midnight, she and Aldeharan will nearly South together, the star heing very near the Moon; and, at 10th. 4m. in the morning the Moon is full, but without an eclipse, as she is 4 degrees distant from the line joining the Sun and the Earth. On the 26th she is in Cancer, and in Leo to the end of the month, from the 27th. On the 29th, at 1th. A.M., Regulus is about 4° ahove the Moon, and on this day, at 4th 29th, at 1th. A.M., Regulus is about 4° ahove the Moon, and on this day, at 4th 29th, at 1th. A.M., Regulus is about 4° ahove the Moon, and on this day, at 4th 29th, at 1th. A.M., Regulus is about 4° ahove the Moon, and on this day,

On the 26th she is in Cancer, and in Leo to the end of the month, from the 27th.

On the 29th, at 1h. A.M., Regulus is ahout 4° above the Moon, and on this day, at 4h. 22n. P.M. she enters her 37 diguarter.

Mercura will he in the constellation of Scorpio till the 19th; in that of Ophiuchus, helween the 19th and 25th; in that of Scorpio again between the 25th and 29th, and in that of Libra after the 28th.

He sets on the 1st, at 5h. 9m. P.M., or 37 minutes after the Sun has set; on the 6th, at 5h. 4m. P.M.; on the 11th, at 4h. 58m. P.M.—on both days heing 40 minutes after the Sun has set; on the 16th, at 4h. 49m. the Sun having set 39 minutes after the Sun has set; on the 16th, at 4h. 30m., and on the 26th, at 4h. 3m. P.M., heing 9 minutes only after the Sun has set. The point of the horizon at which he sets from the 1st to the 15th, is midway between S.W. by W. and S.W. hy W., and at the end of the month it is midway between the W.S.W. and S.W. hy W., and at the end of the month it is midway between that day.

APPEARANCE OF MERCURY ON THE 5TH, AND VENUS TOWARDS THE END OF THE MONTH.





.. 20

FIRST QUARTER · 15 6 FULL MOON · 20 10 LAST QUARTER · 29 4

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3н. 11м.

15

22

P.M.

A.M. P.M. 11

P.M.

P.M.

15h.54m

34 24 24 35 9

40

16 16 30 22 19

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12

16

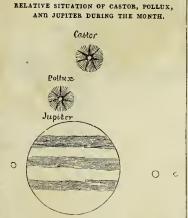
26 39

54

24

NEW MOON

PERIGEE



The planets are drawn upon a scale of 40" to an inch.

On the 1st, he is situated about 6° W.N.W. of Antares; on the 7th, he is 2° N. of that star; after that time he is moving Eastward of it, and on the 15th he is 6° E.N.E. of it. The Moon passes him early in the morning of the 10th. Venus will be in the constellation of Virgo all the month. On the 1st, she rises at 3h. 39m. a.m., and souths at 9h. 28m. a.m., at the altitude of 35°; on the 15th, she rises at 3h. 17m. a.m., and souths at 9h. 0m. a.m.; on the 21st, she rises

at 3h. 14m. A.M., and after this time she rises later day by day; on the last day, she rises at 3h. 19m. ncar E. by S., and souths at 8h. 48m. A.M., and after this time she souths later every day.

At the end of the month of September it was stated that her motion at that time was Westward among the stars, and it continued such till October 16th. Between the 17th and the 25th, she was nearly in the same relative position among them, and after the 17th of October, her motion was again Eastward, as hefore September 7th; it continues Eastward during the month of November, and she is moving again towards Spica Virginis till the 28th, when she is 4° N. of that star. During this month lets Leonis Spica Virginis and Venus form of that star. During this month Beta Leonis, Spica Virginis, and Venus form a conspicuous triangle.

conspicuous triangle.

On the 4th, in the morning, she is ahout 1° S. of the Moon. On the morning of the 8th, Venus is at her greatest hrilliancy as a morning star.

Mass will be in the constellation Aries; he rises on the 1st, at ahout the time the Sun sets, and after this time he rises hefore the Sun sets, and, therefore, the times of his rising are not visible. He sets near the W.N.W. all the month: on the first at 6h. 53m. A.M.; on the 15th, at 5h. 37m. A.M., and on the last day at 4h. 29m. A.M. He souths on the first day at 1lh. 37m. P.M.; on the 15th, at 10h. 25m., and on the last day at 9h. 18m. P.M., at an altitude of 51° each day.

25m., and on the last day at 9h. 18m. P.M., at an altitude of 51° each day.

The motion of the Planet among the stars is westward, till towards the end of the month, at which time he is stationary among them; and he has the same relative position for several days together. On the 20th, he is in a line drawn from the Pole Star, through Alpha Arictis, to 11° distance from this star; hy this means and his great splendour during this month he will be readily found.

The Moon passes him on the 20th at noon.

JUPITER will be in the constellation of Gemini. He rises near the N.E. hy N. point of the horizon. On the 1st day at 8h. 40m. P.M.; and on the last day at 6h. 40m. P.M.; he souths on the same days respectively at 4h. 49m., and 2h. 52m. A.M., at an altitude of 60° throughout the month.

He is stationary among the stars till towards the end of the month; after that time he moves slowly towards the W. During the month he is situated ahout 10° from Castor and 5° from Pollux.

from Castor and 5° from Pollux.

During the night of the 25th, the Moon is near him, and at 1h. In the morning of the 26th, she passes him; heing at the time 5° lower than he is; so that at this time Castor, Pollux, Jupiter, the Moon, and Procyon are one ahove the other, Castor heing the highest and Procyon the lowest.

SATURN rises and sets at the same points of the horizon, and souths at the same altitude as in last month. His times of rising are ahout 2½h. P.M., at the heginning and about 1h. P.M. at the end of the month. He souths at 7h. 53m. P.M.; and at 6h. 0m. P.M., on the 1st and last days respectively; and sets at 1h. 4m. A.M. on the 1st; on the 17th he sets twice on the same day, viz., at 0h. 1m. A.M. and at 11h. 57m. P.M., and on the last day he sets at 11h. 7m. P.M.

He is nearly stationary among the stars for the greater part of the month, and

He is nearly stationary among the stars for the greater part of the month, and he is moving Eastward among them at the end; he is situated the same as in

On the 16th at 8h. 36m. P.M., the Moon is 5° higher than the Planet, and in the line joining the Pole Star and Saturn, so that hefore this time the Moon was W. and after this time she is E. of this planet.

URANUS sets at 3° S. of W. hy N., on the 1st day at 4h. 52m. A.M., and on the last day at 2h. 52m. A.M. He souths on the 15th day at 9h. 15m. P.M. The Moon is W. of him on the 18th, and E. of him on the 19th.

TIMES OF THE SOUTHING, &c., OF THE PRINCIPAL FIXED STARS, WHICH PASS THE MERIDIAN BEFORE MIDNIGHT.

Stars' Names.	Magnitude.	ing du	f south	ahove the	Se	Point of the horizon.
Alpha Aquilæ Alpha Cygni Alpha Cephei	1 1 3	и. 5 5 6	м. 3 56 35	47s 83s 79n	Never Sets	Near W. by N.
Epsilson Pegasi Fomalhaut	1 2	6 8 8	56 8 16	48s 8s 24s	6 ³ / ₄ 2 ¹ / ₂ 7 ¹ / ₄	Near W. by N. S.W. hy S. W.N.W.
Alpha Pegasi Alpha Andromedæ Gamma Pegasi	1 2 3	9 9	19 24 51	67s 53s 86N	84 71 Never Sets	Near N.W. W.N.W.
Alpha Cassiopeæ Alpha Arietis	3	11	18	6ls	81/4	Near W.S.W.

21 21 56 22 22 35 11 11

55 22

57

22lı,35m.

35

11

57

Days of the Month.	Length of Day, or number of	Number of hours and minutes the	Time of	Tim	e of		JUI	PITER'S	SATELLIT	res.			occu	LTATION	S OF STA	RS BY T	не моо	N.
Med	hours he- tween Sun-	day has in- creased since	or heginnin	TWI	ight				ses of	1 0 :					Time	s of disap	pearance'	At the dark or bright limb
- ă	rise and Sunset.	the Shortest Day.	of Twilight				lst. S			d. Sat.		Na	mes of the	Stars.	Time and r	e appearan Star.	ce of the	
	Sunser.					ŀ	mersi	on.	E	nersion.					-			Moon.
1 6	н. м. 9 36 9 20	н.м. 6 58 7 14	н. м. 5 1 5 8	6	м. 27 16	р. 4 5 1	м. в 4 50 1 18	A.M.	n. 1 5 10 13 1	. м.) 46 г.: 23 а.		q Le			5	р. н. м. 3 4 6 5 6	A.M.	Bright Dark
11 16	9 6 8 48	7 28 7 46	5 15 5 22		15 10	13 20	1 12 3 5	A.M.	20 4 27 6	0 ,, 36 ,,		t Pis	scium		6 1	8 4 16 4 49	P.M.	Dark Bright
									3rd Sat.	Im. and	Em.			7				
21 26 30	8 35 8 19 8 10	7 59 8 15 8 24	5 29 5 35 5 41	6 6 5	6 0 57	27	9 33 4 58 1 27	A.M.	14 9 15 0 22 1	16 P.F 21 A.I 13	м. }	k Ge	eminorum	. 1	5 2	5 11 17 : 11 22	P.M.	Dark Dark
00	8 10	6 24	3 41	,	91	28 1	1 24	P.M.	22 4	20 ,,	3	d Le	eonis		5 30	3 17	A.M.	Bright Dark
TIME	S OF CHAI	NGES OF T	HE MOON	10			RIG	HT ASC	ENSIONS	AND D	ECL	INA	TIONS OF	THE P	LANETS.			
		at her greate		411.49	MER	CUR	7.	VE	NUS.	MA	ARS.		JUP1	TER.	SAT	URN.	URA	ANUS.
(Apog	gee), or at 1	ner least dist orth in each l	ance (Peri	11 0 9	Right Ascensio	ti	lina- on uth,	Right Ascension	Declina- tion South.	Right Ascension	, t	clina- ion orth.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North.

2h.20m

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45 35 38

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12 12

7h.29m

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28 27 22 22 03 22 22 35 36

0h. 58m

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19 16

13 10

Dovember Anniversary.



ANNIVERSARY OF THE LANDING OF THE PRINCE OF ORANGE, AT TORBAY, NOV. 5, 1688.

LANDING OF THE PRINCE OF ORANGE, NOV. 5, 1688.

The Fifth of November has a two-fold interest in our calendar, it being the anniversary of two of the most important events in our history—the discovery of "the Gnnpowder Plot" in 1665, and "the Revolution" in 1688. The latter we have selected for our present illustration.

In 1688, the disgraceful acts of James II., having placed the country in a position of great difficulty, the heads of the several parties in the state joined in applying to James's son-in-law, William, Prince of Orange, for his assistance to save the public liberties; and he, at last, made up his mind to comply with their solicitations; and having arranged his preparations with consummate skill, he sailed from Holland with an army of about 14,000 men, composed partly of Dutch troops, and partly of English regiments in the service of the States, and landed at Torhay, on the coast of Devonshire, on Nov. 5, 1698. On the 8th he made a public entry into Exeter, where he remained for some days hefore any of the principal people of the country joined him; on the 21st he quitted Exeter on his march to London. On December 18th, the Prince, arrived with his army in London. Thus, with unparalleled ease and rapidity, was that unenvishle and hloodless revolution effected, which changed the Royal line, and firmly established the Constitution of these realms.

hilshed the Constitution of these realms.

William III. of Nassau, Prince of Orange, and King of England, was horn at the
Hagne, in 1650. He was the son of William, Prince of Orange, and of Henrietta
Maria, daughter of Charles I. He married the Princess Mary, daughter of James Maria, daughter of Charles I. He married the Princess Mary, daughter of James I. Duke of York; and succeeded to the stadtholdership in 1672; and succeeded to the stadtholdership in 1672; and where he defeated James at the battle of the Boyne. In 1691 he headed the confederated army in the Netherlands; took Namur in 1695; and in 1697 he was acknowledged King of England by the treaty of Ryswick. On the death of Mary, 1693, the Parliament confirmed to him the Royal title. His death was accelerated the or higher the held exteriord in a fall force his header.

Mary, 1693, the Parliament confirmed to him the Royal title. His death was accelerated by an injury he had sustained in a fall from his horse.

The good Bishop Burnet heing present, thus describes "the last scene of all" in the eventful life of this great Prince:—"The King's strength and pulse were still sinking as the difficulty of hreathing increased, so that no hope was left. The Archhishop of Canterbury and I went to him on Saturday morning, and did not stir from him till he died. The Archhishop prayed on Saturday some time with him, but he was then so weak, that he could scare speak, but gave him his hand, as a sign that he firmly helieved the truth of the Christian religion, and said he intended to receive the sacrement. His resear and all his sense were a street. hand, as a sign that he miny heneves the truth of the Christian religion, and said he intended to receive the sacrament. His reason and all his senses were entire to the last minute. About five in the morning he desired the sacrament. When this was done, he called for the Earl of Alhemarle, and gave him a charge to take care of his papers. He thanked M. Auverquerque (or Overkirk) for his long and faithful services. He took leave of the Duke of Ormond, and called for the Earl

of Portland; hut hefore he came his voice quite failed; so he took him by the hand, and carried it to his heart with great tenderness. He was often looking up to heaven, in many short ejaculations. Between seven and eight o'clock the rattle hegan; the commendatory prayer was said for him, and, as it ended, he died (on Sunday, the 8th of March), in the fifty-second year of his age, having reigned thirteen years and a few days.

reigned thirteen years and a few days.

"Perfection is not to be expected in a sovereign until the realisation of the dreams of the Fifth-monarchy men: hoth as a 'sovereign and as a man William had faults and weaknesses and unamiable qualities; although these have all heen grossly exaggerated by zealots of various and most opposite parties, the high churchmen detesting him on account of his indifference to the forms of church government, and hoth high and low on account of his toleration; the Jacohites heaping ohloquy upon his name, hecause he naturally preferred the Whigs, who had most contributed to his promotion; and the Republicans, then and in all subsequent times, hecause he did not try again the experiment which had heen tried, and which had signally failed—hecause he was not his own opposite, a De Witt, and a Republican,—a sort of character which, rightly or wrongly, was then reprohated by the vast mass of the nation, and which could no more have achieved the Revolution of 1688 than it could have changed and reformed the dynasty of the Celestial Empire. But William HI. was the first of our rulers that really solved the problem of constitutional monarchy; and since his solution of that problem the duties of our princes have heen easy and natural. Before his time all was riddle and uncertainty, and the constitution understood, hecause it had never properly heen put into practice. If now and then he stumbled, it should he remembered that what to after sovereigns has heen a plain, hroad, and heaten path, was then an unexplored and dark passage, where nearly every step was an experiment. Our admiration of the shifty, and the real genius in state affairs, of this illustrious Prince, must rise to the highest pitch if we look closely into the complicated nature and surpassing difficulties of his situation. A stadtholder in Holland with Republic forms—a King in England and Scotland, with constitutions which had never properly heen defined—the ruler, in fact, of the Dutch, the English, the Scotch, and the Irish, not to be expected in a sovereign until the realisation of the "Perfection is

NOVEMBER.

NOVEMBER.

In this month there are scarcely any flowers left, but many trees are still beautiful, from the varying colours of their leaves and their ornamental fruit. Among the latter may be mentioned the spindle tree, the fruit of which is particularly beautiful, from its pink capsules opening so as to show the bright orange aril of the seed, which looks just dropping from it. The clusters of the bryony also exhibit beautiful shades of orange and scarlet, which are finely contrasted with the few remaining leaves. The arbutus at this season is also covered with its rich crimson straw-berry-like fruit, hanging amidst its elegant evergreen leaves, and intermingled with a few remaining flowers, which look like pale waxen bells, or as Mrs. Mereditih elegantly calls them, fairy lamps. The berberries are still hanging on their bushes; and the purple berries of the ivy, together with the scarlet ones of the pyracantha, still remain to afford food for the birds. Amongst the plants that are ornamental at this season, few are more conspicuously so than the traveller's joy (Clematis vitalba), whose light feathery sced vessels hang over the hedges like plumes of feathers waving to and fro with the wind. The cones of the pine and fir tribe are now very ornamental, and vary considerably both in the form and colour. Those of the spruce fir are of a deep purple, small and erect, and those of the cedar of Lebanon are yellowish. Some look reddish, and some green, and some are short and pointed, while others are long and drooping. The plane trees look remarkably well at this scason, their bald-like seed vessels hanging on long foot stalks:

The flown leaves are shed on the way The dye of the lone mountain flower Grows was and hotokens decay.

All silent the song of the thrush,
Bewilder'd she cowers in the dale;

Grows wan and betokens decay.

All silent the song of the thrush,

Hewilder'd she covers in the dale;

The blackhird sits lone on the hush—
The fall of the leaf they hewail.

Several very curious kinds of fungi are to be found at this season. One very peculiar kind grows out of the ground with a single stem, scarcely thicker in the cap part than at the base. It only springs up where there is decaying vegetable matter, and it is of a brilliant crimson. That very curious fungus called in Scotland siller cups (Nidularia campanulata) is found at this season. It eonsist



SILLER CUPS: NIDULARIA CAMPANULATA.

SILLER CUFS: NIDULARIA CAMPANULATA.

of a curious leathery cup, in which are a number of small thecæ, which contain the sporules, and each plant looks like a bird's nest with several eggs in it. It generally grows on a twig, or a bit of rotten wood, and one has been found in a pot, growing on a wooden tally, fixed in a pot containing a greenhouse plant. The curious plant called witches' butter (Tremella arbora), is found upon fallen trees, or any kind of dead wood in moist places. It forms roundish, somewhat turbinated, irregular masses, of a firm, gelatinous substance, lobed and wrinkled above, slightly plicate below, of a pale, whitish hue at first, but soon changing to brown, and eventually becoming black. It was called witches' butter, partly because it is of a soft, buttery substance, and partly because it was formerly supposed that throwing it into the fire of a dwelling house, would protect the inhabitants from witches. Several kinds of Agaricus may also be seen, some of which have blue stems, others orange, yellow, and green, with caps of various colours, some of which are scarlet or crimson, and others have beautiful shades of purple or violet: In short, nothing can exceed the variety of these curious plants—

green, with caps of various colours, some of which are scarlet or crimson, and others have beautiful shades of purple or violet. In short, nothing can exceed the variety of these curious plants—

Whose tapering stems, robust or light,
Like columns earch the searching light;
Like fair umbrellas, furl'lor a pread,
Display their many-coloured head—
Grey, purple, yellow, white, or brown,
A Grecian shield, or prelate's crown,
Like freedom's cap or friar's covil,
Or China's bright inverted how!

The principal bird seen at this season is the snipe, though it generally leaves
England about the latter end of this month. The suipe, from the nature of its
food, requires a somewhat moist and cold climate. It lives principally upon
earth-worms, which it finds by boring in the soft moist ground with its long
beak. This beak is covered with nerves, so that it is as sensitive as the human
hand. The bird also appears gifted with an extraordinary power of scent, as it
scarcely ever bores in any place where it does not find a worm. Snipes are too
shy to permit any one to approach near enough to observe their habits with the
naked eye; but through a telescope they may be watched feeding in marshy
ground near rivers, when it will be found that they strike their long bills almost
up to the head into the soft mud, and almost always bring up a worm. The snipe
generally draws its beak back with a jerk, and runs a few paces, holding the
worm in its beak, before it swallows it; but as soon as the worm has disappeared, the snipe makes another plunge, and brings up another, and in
this manner it eats an amazing quantity of worms, and sometimes slugs.
The head of the snipe is admirably fitted for the manner in which the bird
obtains its food. The head is heavy, and somewhat square in front, and
he eyes, which are very large, are placed so far back in the head as to enable

the bird to keep watch when its beak is plunged into the ground in search of food. The tip of the beak is soft and flexible, and the snipe can move it so as to take hold of any object in the ground, without unclosing the horny part of the bill. When hungry, the snipe is very active and so sly that it will not suffer any one to approach it, but after feeding it becomes more torpid, so that sportsmen when they go out to shoot these birds generally look for the marks left by the bird in boring, as they know that the snipe is not far off, and that it is probably sufficiently quiet to afford the chance of a good shot. The common wild pigeon or stock dove is a bird of passage in the south of Englond, seldom appearing before the end of November. They are very fond of the mast, or seed, of the beech tree. They generally appear in prodigious flights, and occasionally, in severe weather, they will join the domestic pigeons in a farm yard, though they may be easily distinguished by their smaller size and darker colour. It is said that this wild bird is the origin of all our tame pigeons. Some other kinds of birds migrate from the north to the south of Great Britain in this month. The waterwagtail is one of these birds, which generally visits marshy places on the southern coast in this month, returning back to the north about the beginning of March. Some of these birds, however, remain all the year in the southern and western parts of England. It has been often observed that when cows are feeding in low moist pastures, broods of wagtails are seen fluttering about them, in quest, no doubt, of the flies which are apt to annoy animals in such situations. They are also found, in country places, on the sills of windows, to catch the flies that are generally found in such places. The grosbeak, or hawfinch, usually visits England in this month. It feeds principally upon the fruit of the common hawthorn, breaking the hard seeds with the greatest facility. It feeds also upon other seeds, and the stones of various kinds of fruit.

T the bird to keep watch when its beak is plunged into the ground in search of food,

and the stones of various kinds of fruit.

There are scarcely any insects to be found in the open air in this month; but the dampness and chilliness of the weather inducing larger fires to be kept up, kitchens and the lower parts of houses are frequently infested by what are commonly called black beetles, but which are not a properly beetles, but which are not a properly beetles but the properly but the properly beetles but the properly but the properly beetles but the properly beetles but the properly better but the properly better but the properly better but the properly but the properly but the properly but the properly but the properl

properly beetles, but a kind of cockroach (Blatta orientalis), and it is, therefore, nearly allied to the cricket and grasshopper. All the insects belonging

belatta or degrees the sides of it have attained a proper firmness. The outer part of this capsule is at first white, but by degrees becomes brown. If this receptacle for the cggs is more closely examined, it will be seen that one of the two longer margins is very finely toothed, and is composed of two layers, and so constructed that the teeth of one of the layers easily go into the spaces between the teeth of the other layer. This margin is also so firmly united by means of a gummy substance, that it might be easier opened at any other part than at the toothed edge. As soon as the young are hatched and have quitted the egg, they emit a fluid from their mouths, by which they soften the cement that united the two layers of the capsule together, and thus they contrive to open the door of their prison-house. The anxious mother lays the capsule containing her eggs on clothes, leather, and even on walls, taking abundant care to cover it with a portion of the same kind of material as that on which she has laid it. She even carries this feeling so far as to scrape the lime from the wall, and to spread it over the capsule. Black beetles are fond of warm places, and they are found in the greatest abundance in kitchens and bake-houses. Their favourite food is bread and flour; but they will eat almost anything. They avoid the light and hide themselves in dark places during the day, but they come out of their hiding-places in the evening to feed. The wings and wing-cases of the male are one-third shorter than the body. The female is without wings, and has only very short rounded wing-cases, which are separated from each other. The Germans have a cockroach, which is still more troublesome than ours. It is smaller than the common black beetle, and of a dirty yellow colour. These creatures are excessively troublesome, and will even eat the blacking off boots. The American cockroach (Blatta americana), is red, and it is nearly twice as large as the black beetle. It has large wings, and as, wherever it has been introduced, it h



will probably, in the course of a few years, as completely extirpate the ordinary kind as the Hanoverian rats have extirpated those of Norway. The American cockroach is a most voracious feeder, and as it is particularly fond of sugar, it is frequently found in the shops of grocers and other persons who deal in that commodity. The female of the American cockroach is much larger than the male; and she has very large wings, and tremendously long horny antennæ.

DECEMBER, 1847.



	The state of the s						DID TRON OF MANUACUM.										
M	w	ANNIVERSARIES, OCCUR-			SUN.			MOON		Before Sunrise. After Sunset.				HIGH V		TION OF	Day of the Year
D	D	RENCES, FESTIVALS, &c.	Rises		FTS.	DECLINA-	RISES.	Souths	SETS.	[] -B	O'Clock	, E 9.	O'Clock.	AT LONDON	Daines	TIME.	e X
, D	וש	MERCED, TESTIVIDO, CC.	KISE	. 5.	. 18.	NORTH.	Afternoon	SOUTH	Morning.		2h. 4h. 6h.	Moon'	_ 6h. 8h. 10h.	Morning	Afternoon	Subt.	14
_				4. H.		Deg. Min.	ц. м.	н. м		1	TTI	1	WILLIAM WALLER TO THE TANK THE	н, м.	н. м.	M. a.	005
1	$ \mathbf{W} $	The Pleisdes souths 10h, 57m, r.m., 62 deg, high	7 4	6 3	52	21 46	0 49	Mornin	Afternoon	1		23	V////X////X////X////X/////X/////	8 40	9 15	10 53	335
2	TìH	Andromede souths at 7h.	7 4	7 3	52	21 56	1 52	7 4		1111		24		9 45	$10 \ 20$	10 31	336
3	F	γ Pegasi sou! hs at 7h. 18m.	7 4	3 3	51	22 4	2 55	8 3	2 0			$\frac{1}{25}$		10 50	11 25	10 7	337
4	S	a Arietis souths at 9h, 5m.	7 4	0 3	51	$\frac{1}{22}$ $\frac{1}{3}$	3 55	9 1				26		11 55		9 43	338
5	- 1		7 5	1 3	51	22 21	5 0	10	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11/1		-		0 15	0 40	9 18	339
-	S	2ND S. IN ADVENT	7 5	1 0	51	$\frac{22}{22}$ $\frac{21}{28}$	$\begin{bmatrix} 3 & 0 \\ 6 & 2 \end{bmatrix}$	10 1		11/4		27		0 57	1 20	8 53	340
6	IVI	St. Nicholas	7 5	2 3	-	_	7 9	10 4	$\frac{7}{c} = \frac{3}{4} = \frac{27}{c}$	1///		28			1 55		341
7	lu	a Ceti souths at 9h 50m. P.M.	/ 3.	3 3	50	22 35	1 4	11 3	0 4 7	1//		9		1 35		8 28	
8	W	Rigel souths at 11h. 59m. r.m., 30 deg. high	7 5		50	22 42	7 59	Afternoo				1	1 10 10 10 10 10 10 10 10 10 10 10 10 10	2 10	2 30	8 1	342
9	Тн	Yesr 1264 of the Mohammedan era commences	7 5	63	50	22 48	8 51	1 1	9 5 48			2		2 50	3 5	7 35	343
10	F	Grouse shooting	7 5	7 3	49	22 - 54	9 37	2 1	1 6 48			3		3 25	3 45	7 7	344
11	S	ends Capella souths at 11h, 45m.	7 5	8 3	49	22 59	10 18	3 .	7 56	7//		4		$\begin{vmatrix} 4 & 0 \end{vmatrix}$	4 20	6 40	345
12	S	3RDS. IN ADVENT	7 5	9 3	49	23 - 4	10 54	3 5	6 9 7			5		4 40	5 0	6 12	346
13	$\widetilde{\mathbf{M}}$	B Tauri souths at 1th 48m.	8	03	49	23 9	11 24	4 4	7 10 21	7//		6		5 25	5 45	5 44	347
14	Τυ	John Claudius Loudon, the	8	0.3	49	23 13	11 53	5 3	8 11 35			7		6 10	6 35	5 15	348
15	W	Ember Week	8	13		23 16		6 0	0			2 2		7 0	7 30	4 46	349
16	(23	Camb. Term ends	8	$\begin{array}{c c} 2 & 3 \end{array}$		23 19	Afternoon 0 47	7 2	Protuing			9		8 5	8 40	4 17	350
17	F	Oxford Term ends	-	3 3		$\frac{23}{23}$ $\frac{13}{22}$	1 19		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1		4		9 15	9 50	3 48	351
1/	1 - 1			1 0	- 0	$\frac{23}{23}$ $\frac{22}{24}$	1 52					10		10 30	11 5	3 18	352
18	S	Sun in Sagittarius						$\frac{9}{10}$ 1		_	30///X////	11		11 35	11 0		353
19	S	4TH S. INADVENT	8	5 3	50	23 25	2 29	10	7 4 40	11		12			0.00	2 49	
20	M	The Sun rises 4 deg. S. of S.E. by E.	8	5 3	51	23 27	3 15	11	5 5 53	111		13		0 8	0 35	2 19	354
21	Tu	St. Thomas	8	6 3	51	$23 \ 27$	4 9	Mornin	6 59		1	0		1 0	1 30	1 49	355
22	W	Winter commences	8	63	51	23 27	5 8		2 7 56			115	7///	1 54	2 20	1 19	356
23	Тн	The Sun sets 4 deg. S. of S W.	8	63	52	23 27	6 10	1 5	3 8 45			16		2 40	3 5	0 49	357
24	F	Christmas Eve	8	73	52	23 26	7 20	2 4				17		3 25	3 50	0 19	358
25		CHRISTMAS DAY	8	73	53	$\frac{23}{23}$ 25	8 26					18		4 10	4 30	Aďa	359
26	1	St. Stephen	8	73	53	$\frac{23}{23}$	9 32			11-	 	19		4 50	5 10	0 40	360
27	M	St. John the Evan,		83		23 21	10 35	5	1054	-		$\frac{19}{20}$		5 30	5 50	1 10	361
28	TG.	T .		83	55		11 38	5 4	$\frac{1}{4}$ $\frac{10}{11}$ $\frac{34}{18}$	-		3 - 1		6 9	6 30	1 40	362
		Innocents Day	10-	-11-			11 30		0			21			- 101		363
29	A	Sun in Capricorn.	8	9 3	56	23 16	Morning.	$\frac{6}{2}$				(6 50	7 10	- 0	
30		a Orionis souths at 11h. 12m,	8	9 3	57	23 12	0 40		9 Afternoon]23		7 35	8 5	2 38	364
31	$ \mathbf{F} $	St. Silvester	8	93	58	23 8	1 43	7 5	3 0 28			24		8 35	9 10	3 7	365
1								9					***************************************				

DECEMBER.

THE Moon rises after midnight and before noon from the 1st to the 14th; between noon and midnight between the 14th and the 28th; and after midnight on the 29th

and 30th. She sets before midnight till the 14th, and after midnight from that day. On the 1st at 11h. A.M., she is on the Equator, and going S.; from the 1st to the 4th in Virgo, her crescent is seen on the morning of the 3rd, a few deg. N.W. of Spica Virginis. On the 4th and 5th, she lsin Libra; on the 7th, at 8h. 31m. P.M. of Spica Virginis. On the 4th and 5th, she list Libra; on the 7th, at 8th 31m. F.W. Is new, but without an eclipse, as she is then 4½ degs. from the line joining the Sun and the Earth; on the 7th and 8th, she is in Ophiuchus; on the 9th, 10th, and 11th, in Aquila; on the 10th, at a considerable distance under Alpha Aquila, and sets under Delphinus; on the 12th and 13th, she is in Aquarius; on the 14th, 15th, and 16th, ln Pisces. On the 15th, at 1h. F.M., she is on the Equator, going N.; and at 3h. 26m. A.M., she enters her first quarter, her course being towards Aldebaran; on the 17th, she is seen several degs. W. of the line joining Alpha Arietis and Alpha Ceti; and on the 18th, she is E. of the same line. On the 17th and 18th, she is in Aries; on the 19th, 20th, and 21st, ln Taurus, passing at some distance below the Pleiades; she is seen W. of Aldebaran on the 19th; and E. of it on the 20th; approaching the Milky Way, which she crosses during the 21st, on which day at 10h. 8m. F.M., she is full, but without an eclipse, as she is then 5 degs. from the line joining the Sun and Earth produced to the, Moon. On the 21st, she is in Gemini; on the 23rd and 24th, she is in Cancer; on the former day she is W., and on the latter E. of the line joining Pollux and Procyon; on the 25th, 26th, 27th, and 28th, she is in Leo, being W. of Regulus to the 26th, and E. of it afterwards. On the 28th, at 8h. F.M., she is on the Equator going S., and to the end of the month she is in Virgo; on the 29th, at 1h. 48m., she enters her last quarter.

MERCURY will be in the constellation of Libra till the 3rd; in Scorpio from the

MERCURY will be in the constellation of Libra till the 3rd; in Scorpio from the 4th to the 18th, on which day he passes into Ophiuchus and remains there till the end of the year.

He rises on the 1st, at 6b. 33m. A.M.; on the 6th, at 6h. im., (the Moon rising at the same time); on the 11th, at 5h. 54m.; on the 16th, at 6h. 3m.; on the 21st, at 6h. 19m.; and on the 26th, at 6h. 39m. A.M.; preceding the times of sunrising by 1h. 13m., 1h. 51m., 2h. 4m., 1h. 59m., 1h. 57m., and Ih. 28m. respectively. These intervals of time are larger than any other during the year; this month, therefore, is very favourable for observing this Planet.

APPEARANCE OF MERCURY ON THE MA VENUS ON THE MARS AND SATURN DURING THE 14TH 14TH. MONTH



Scale 40" of arc to an inch.

Scale 40" of arc to an inch.

On the 1st, he rises midway between E.S.E. and S.E. by E.; on the 23rd, S.E. by E., and after this time a little S. of the latter point. He is moving W. among the stars till the 5th, and E. after this day. He is situated on the 1st, in a line drawn from Antares through Beta Scorpio produced 4°, and he is 13° N.W. of the former star. On the 5th, he is in the same line, but at 6° distauce from Beta Scorpio, and 15° from Antares; he then moves E., and on the 10th, is situated as on the 1st; on the 14th, he is 1° N. of Beta Scorpio; on the 19th, he is 6° N. of Antares; on the 26th, he is 14° E. of Beta Scorpio; and 10° N.E. of Antares; on the last day he is 17° from Antares, and in a line drawn from the Pole Star through Alpha Ophiunch, produced 36°. The Moon is near to Mercury on the morning of the 6th, being only 1° N. of the Planet.

Venus will be in the constellation of Virgo till the 15th, and in that of Lilra after that day.

after that day.

She is the morning star all the month; and rises at 3h. 20m. A.M. on the 1st; at 3h. 30m. A.M. on the 1lth; at 3b. 48m. A.M. on the 2lst; and at 4h. 8m. A.M. on the last day; at the S. by E. on the 1st, and on the 30th: at the E.S.E. points of the horizon, during the month the points of the horizon where she rises are

During the month she souths at about 8h, 50m, A.M., on the 1st, at an altitude

of 32°, and on the last day, at an altitude of 23°.

On the 1st, she is a few deg, N.E. of Spica Virginis; on the 12th, she is in the line produced joining the Pole Star and Arcturus, and at the distance of 30° S of the latter star, and at 13° distance E. of Spica Virginis.

On the 21st, she is a 3° N. of Alpha Libra; and on the last day she is in a line joining the Pole Star and Alpha Corona Borcalis, and 43° distance from the latter

During the morning of the 3rd day, the Moon and Venus are very near together; the Planet is a very little N. of the Moon.

Mars will be in the constellation Arles throughout the month. He sets near the W.N.W. On the 1st, at 4h. 25m. A.M.; on the 15th, at 3h. 36m. A.M.; and on the last day, at 2h. 56m. A.M. He souths at 8h. 13m. r.M. on the 1st, at 8h. 22m. on the 15th; and at 7h. 33m. on the 31st, at an altitude of 51, 52, and 53 respectively. To December 7th, he is stationary among the stars, and he is 15° S. of Alpha Arietis; on the 18th, he is 9° S. of Alpha Arietis; and after this time he moves E. from that star. He is a bright and conspicuous object throughout the month month.

JUPITER will be in the constellation Gemini. He rises near the N.E. by N.; on the lst, at 6h. 36m. P.M., and on the last at 4h. 23m. P.M. He souths on the same days at 2h. 48m., and at 0h. 36m. A.M., at an altitude of 61° on every day.

During the month he is moving slowly westward, and away from Castor and Pollux; at the end of the month he is 11° from the former, and 8° from the latter. The Moon passes him at 6h. in the morning of the 23rd.

SATURN rises and sets at the same points of the horizon, and souths at the same SATERN TIMES and sets at the same points of the normon, and souths at the same altitude as in last month. He rises a little after noon at the beginning, and before noon at the end of the month. He souths at 5h. 56m. P.M. ou the 1st, and at 4h. 6m. P.M. on the 31st; and 9h. 16m. P.M. on the same days respectively. His motion among the stars is slowly towards the E., and he is situated as In last month. The Moon passes him at 4b. in the morning of the 14th.

URANUS sets at 3° S. of W. by N; on the 1st, at 2h. 48m. A.M., and on the 31st, at 0h. 48m. A.M. He souths on the 15th day at 7h. 18m. P.M. The Moon passes him during the afternoon of the 16th.

TIMES OF THE SOUTHING, &c, OF THE PRINCIPAL FIXED STARS WHICH PASS THE MERIDIAN BEFORE MIDNIGHT.

Stars Names.	Magnitude.	Time of	ing the	ahove the	Set	ting.
	Mag	evening 1st.	day.	horizon S (South) N (North)	Number of hours from southing.	Point of the horison.
		n.	M.		н.	
Alpha Cephei	3	4	35	79°N	Never Sets	
Epsilon Pegasi	2	4	57	48s	6 2	Near W. by N.
Formalhaut	1	6	9	88	2 i	S.W. by S.
Alpha Pegasi.	2	6	17	248	7 1	W.N.W.
Alpha Andromedæ	l î	7	20	678	8.	Near N.W.
Gamma Pegasi	2	7	25	53s	71	W.N.W.
Alpha Cassiopeæ	3	7	51	86N	Never Sets	
Alpha Arietis	3	9	18	61s	81	Near W.S.W.
Aipha Aireus		_				Between W.
Alpha Ceti	1	10	13	42s	61	and W. by N.
Alpha Persei	2	10	32	88s	Never Sets	
Aldebaran	1	11	46	55s	71	Near W.N.W.

POSITION OF THE CONSTELLATIONS RISING, ON THE MERIDIAN, AND SETTING ON THE 1st. DAY AT 10H. P.M. Constellations Rising. | Constellations on the Meridian | Constellations Setting

2	Constenations retaine.	Constellations of the Exertation	Constendentions Setting.
;	Canes Venatici N.N.E.	Draco, 10° above the N	N.W. by W.
3	Leo E.N.E	Ursa Minor 35° above the N. horizon	
3	The head of Hydra E.	Polaris	Aquila in W.N.W.
	The flank of Monoceros	Perseus between Polaris	The legs of Aquarius in
:	E. by S.	and the Zenith	S.W. by W.
	The head of Canis Major	Aries 55° above the S.	
3	S.E. by E.	horizon	
9	Lepus S.E. by S.	The head of Cetus 40° above the S. horizon	

of ath.	Length of Hours and Jay, or of number of hours be-hours be-hours be-				SATELLITES.	OCCULTATIONS OF STARS BY THE MOON.						
Mo	number of hours be- tween sun-			lst, Sat.	oses of 2nd, Sat.		Times of dis	At the dark or bright				
tween sun- rise and sun Increa		Increased since short-est Day.	11.	Emersion.	Emersion'	Names of the Stars.	and re appea	rance of the limb of the				
1 6 11 16 21	H. M. 8 6 7 59 7 51 7 47 7 45	H. M. H. M. 8 28 5 42A 8 35 5 47 8 43 5 51 8 47 5 55 The Shortest Day 5 59	5 56 ,, 5 56 ,, 5 56 ,,	n. H. M. 4 6 52 A.M. 6 1 20 ,, 7 7 48 P.M. 14 9 42 ,, 20 5 7 A M.	7 10 30 P. M. 15 1 8 A. M. 22 3 44 ", 29 6 21 ",	e Pisclnm Lambda Geminorum	5 23 3 59 5 3	P. M. Dark Bright Bright Dark Dark				
26 31	7 46 7 49	Day 5 59 6 1 6 2	, 5 59 ,,	21 11 36 P.M. 23 6 4 ,, 27 7 1 A.M. 29 1 30 ,, 30 7 58 P.M.	3rd. Sat.	11 Sextantis Pi Leonis	5 38	A. M. Bright Dark A. M. Bright Dark Dark				

TIMES OF CHANGES OF THE MOON,	e			RIG	HT ASC	ENSIONS	AND D	ECLINAT	IONS OF	THE PI	ANETS.		
And when she is at her greatest distance (Apo-	f the	MER	CURY.	VEN	US.	MA	RS.	JUPI	TER.	SATU	JRN.	URA	NUS.
gee), or at her least distance (Perigee), from the Earth, in each Lunatiou.		Right Ascension	Declina- tion South.	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North.	Right Asceusion	Declina- tion North.	Right Ascension	Declina- tion South	Right Ascension	Declina- tion North.
NEW MOON	1 6 11 16 21 26	15h. 43m 15 36 15 45 16 5 16 30 16 58		13h.26m 13 44 14 3 14 23 14 43 15 5	6° 53′ 8 15 9 43 11 15 12 47 14 17	1b.54m 1 54 1 55 1 58 2 1 2 6	12° 15′ 12 27 12 44 13 6 13 33 14 3	7h.25m. 7 23 7 21 7 19 7 17 7 14	22 11 22 16 22 21 22 26	22h.36m. 22 37 22 38 22 39 22 40 22 41	10° 53′ 10 48 10 41 10 34 10 27 10 18	0h. 55m 0 54 0 54 0 54 0 54 0 54 0 54	5° 8′ 5 6 5 5 5 4 5 3 5 3

December Anniversary.



MERRY CHRISTMAS.—DRAWN BY KENNY MEADOWS.

THE ENGLISH CHRISTMAS HOME.*

A loud and laughing welcome to the merry Christmas bells! All hail, with happy gladness, to the well-known chaunt that swells We list the pealing anthem chord, we hear the midnight strain, And love the tidings that proclaim Old Christmas once again. But there must be a melody of purer, deeper sound, A rich key-note, whose echo runs through all the music round; Let kindly voices ring heneath low roof or palace dome, For these alone are carol chimes that bless a Christmas Home

Then fill once more from Bounty's store red wine or nut-hrown foam, And drink to kindly voices in an English Christmas Home!

A hlythe and joyous welcome to the berries and the leaves
That hang about our household-walls in dark and rustling sheaves:
Up with the holly and the hay, set laurel on the hoard,
And let the mistletoe look down while pledging-draughts are poured.
But there must he some hallowed bloom to garland with the rest,—
All, all must bring toward the wreath some flowrets in the breast;
For though green boughs may thickly grace low roof or palace dome,
Warm hearts alone will truly serve to deck a Christmas Home!

CHORUS.

Then fill once more from Bounty's store red wine or nut-brown foun, And drink to honest hearts within an English Christmas Home!

* The Poetry by Eliza Cook. The Music by Vincent Wallase, Composer of the Opera of "Maritana," appeared in the Illustrated London News, December 20, 1845.

DECEMBER.

Among the few plants that are ornamental at this season, one of the most conspicuous is the holly, the beautiful red berries of which look particularly brilliant from the want of ornament in most of the other trees and shrubs.

O reader, hast thou ever stood to sea

The holly tree?

The eye that coutemplates it well, perceives

Its glossy leaves
Order'd by an intellacence, so wise
As might confound the Atheist's sophistries.

Below a circling fence its leaves are seen,
Wrinkled and keen;
No grazing cattle through their prickly round
Can reach to wound;
But as they grow where nothing is to fear,
Smooth and unarm'd the pointless leaves ap-

pear.

Thus, though abroad perchauce I might appear
Harsh and austere,
To those who on my leisure would intrude
Reserv'd and rude;
Gentle at home amid my friends I'd he,
Like the high leaves upon the holly tree!

sk of the other trees and shribs.

And should my youth, as youth is apt, I know,
Some harshness show,
All vain asperities I day by day
Till the smooth temper of my age should be Like the high leaves upon the holly-tree.

And as, when all the summer trees are seen So bright and green,
The holly-leaves their fadeless hues display Less bright than they;
But, when the hare and wintry woods we sea,
What then so cheerful as the holly-tree?

So serious should my youth appear among
The thoughtless throng;
So would I seem amid the young and gay,
More grave than they;
That in my age as cheerful I might be
As the green winter of the holly-tree.
Souther.

Like the high leaves upon the holly tree!

The holly and the mistletoe, it is well known, are used to decorate houses at Christmas; but very few people are aware of the origin of the custom. The holly was dedicated to Saturn; and, as the fêles of that deity were celebrated in December, and the Romans were accustomed to decorate their houses with holly, the early Christians decorated their houses in the same manner, while they were celebrating their festival at Christmas, in order that they might escape observation. The mistletoe was dedicated to Friga, the Venus of the Scandinavians, and, as she was the goddess of love, it was formerly a custom to kiss under the mistletoe. mistletoe.

As at this season, the leaves have generally fallen, the peculiarities in the growth of trees are more perceptible. Amongst others, may be observed occasionally that curious mode of growth called inosculation, where two trees unite together, or where a branch crossing a trunk, becomes united to it. There are



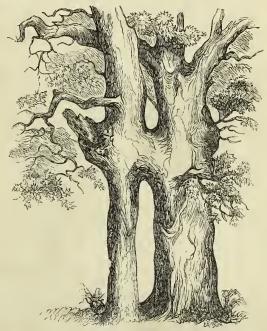
AN INOSCULATED DEECH.

several examples of trees of this kind in Epping Forest; and it is said that it was observing this curious manner of growth that gave the first idea of grafting. In the gardens, the laurustinus is generally in flower; as also the newly-intro-In the gardens, the laurustinus is generally in nower; as also the newly-introduced Garya elliptica, with its long, drooping spikes of flowers, which bear some resemblance to those of Love-lies-bleeding, but are of a lighter texture, and of a pale green colour. Chimonanthus fragrams now opens its pale-yellowish, buff-coloured flowers, which have a delightful fragramce. In the green-houses the camellias are in all their beauty; as are the chrysauthemums, both in the open six and under class.

air and under glass.

The principal bird deserving notice is the woodcock, which generally appears in air and under glass. The principal bird deserving notice is the woodcock, which generally appears in this country about the latter end of November, or the beginning of December. As woodcocks live in the same manner as snipes, sportsmen guess where they are to be found by the perforations or borings made by their bills in the ground. Woodcocks are naturally very shy birds, rarely taking wing by day, unless disturbed; but in the evening, all, as if by common consent, quit the woods nearly at the same instant, and wander over the snow-covered meadows in search of moist places, for food, retiring to their hiding places just at the dawn of day. The bill of the woodcock, like that of the snipe, is furnished with nerves that render it exceedingly sensitive; and the tip is also so flexible, that it can easily pick up a worm, or even a small insect, without opening the bill. "The enormous quantity of worms that these birds eat," Rennie observes, "is scarcely feedble; indeed, it would be the constant labour of one person to procure such food for two or three woodcocks." The woodcock is so much like the snipe when seen at a little distance, that it would be difficult to distinguish between them, were it not for the habit which the woodcock has, in rising from the ground, of throwing up its tail feathers in the same way as the peacock does its tail, when the white tips of the woodcock's tail feathers distinguish it from the snipe, the tail of which is dark brown. The redbreast, the wren, the hedge-sparrow, and the tomitare almost the only small birds seen in the open air at

this season, and they are generally found in the neighbourhood of dwelling-houses, picking up any particles of food they can find. If the weather should be houses, picking up any particles of food they can find. If the weather should be mild, the hedge-sparrow may sometimes be heard singing, even in the middle of



AN INOSCULATED OAK.

Very few living insects are to be met with in the open air in this month, though those which infest dwelling houses are often in a state of great activity. One whose ravages are very extensive, is the bacon beetle, or weevil as it is generally termed (Dermestes lardarius). The larva of this insect is particularly partial to the skin of any animal that falls in its way; and consequently it destroys stuffed animals and birds in collections of nature.

and consequently it destroys stuffed animals and birds in collections of natural history, whenever it can gain access to them. It attacks hams and bacon for them, it attacks hams and bacon for the skin, but as it is very gluttonous it extends its ravages to the flesh. The larva is long and slender, its body being nearly round, and consisting of thirteen segments, which are blackish brown in the middle and white at the edge. The whole body is furnished with bristle-shaped reddish brown hairs. The beetle is black at the head and tail, with an ash-crev hand across the back, having three black spots on each wing case.

snaped recoust brown name. Into beetie is black at the head and tail, with an ash-grey band across the back, having three black spots on each wing case. Sometimes this band takes a yellowish tinge, and the whole beetle is furnished here and there with tufts of ash-grey or yellowish-grey hairs. The beetle is frequently seen in December and January, but the weevils are most destructive in spring. The larvæ are very seldom seen, as they conceal themselves in the bodies they attack, and their presence can only be guessed by finding occasionally their cast off skips as they change their skips saveral times while in their large. bodies they attack, and their presence can only be guessed by mading occasionally their cast-off skins, as they change their skins several times while in their larvæ state. Whenever, therefore, little rolls of black skin are found near the places where ham and bacon are kept, or in cases containing objects of natural history, it is probable the bacon beetle has attacked them, and a careful examination should be made to endeavour to discover and destroy the larvæ. Search may also be made for the clothes moth during this month, as, though it generally passes the winter in a torpid state, if its eggs are found and destroyed, it will prevent the mischief the caterpillar would otherwise do in spring. The common clothes moth generally lays its eggs on the woollen or fur destroyed, it will prevent the mischief the caterpillar would otherwise do in spring. The common clothes moth generally lays its eggs on the woollen or fur articles it intends to destroy; and when its larva appears, it begins to eat fin-mediately, and, with the hairs or wool it has gnawed off, it forms a silken case or tube, under the protection of which it devours the substance of the article on which it has fixed it abode. This tube is of parchment-like consistence, and quite white. It is cylindrical in its shape, and furnished at both ends with a kind of flap, which the insect can raise at pleasure, and crawl out; or it can project the front part of its body with its fore feet through the opening, so as to crawl about without removing the rest of its body from the tube, which it drags about with it. There are several kinds of clothes moths, and the caterpillars of some of them bury themselves in the article on which they feed, instead of making themselves a silken tube. The moths also differ very much in appearance: the commonest kind is of a light buff; but one species (Tinca tapet-zella) is nearly black, with the tips of its larger wings white, or pale grey.

The eggs of insects should be sought for in this month as well as in January; and rose trees should be examined to see if their bark has been penetrated by the

The eggs of insects should be sought for in this month as well as in January; and rose trees should be examined to see if their bark has been penetrated by the saw-fity, which wounds the bark with her saw, and then deposits in it her eggs, the caterpillars from which are extremely destructive to the young leaves of the rose. The eggs of a kind of leaf-roller, which is also very destructive to the rose, are sometimes found in little yellow patches on the glass of green-houses, and other places where they are not likely to be disturbed. The hearth cricket (Achte domestica) is particularly lively at this season. It passes the summer concealed in the crevices of walls, or among heaps of rubbish; but, towards winter, it takes refuge in the house, where it generally breeds about Christmas. The noise of the cricket is made by its wings.

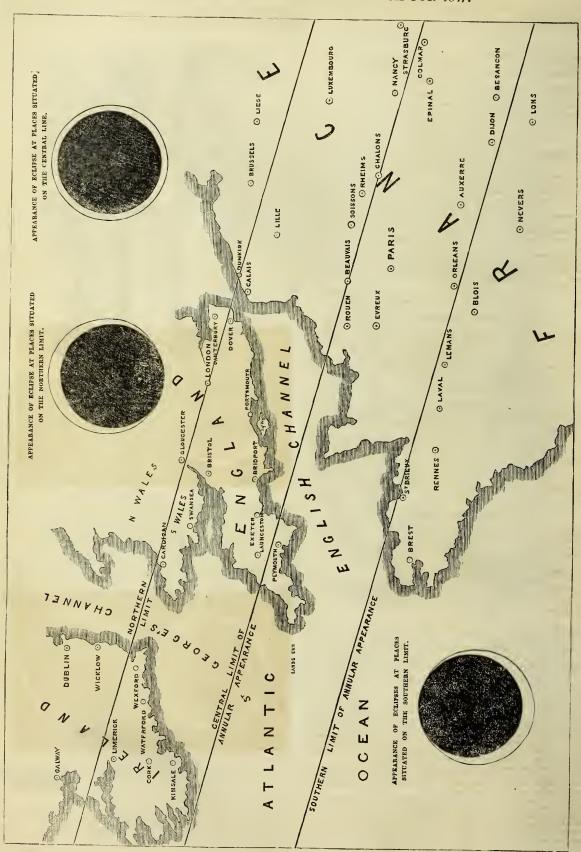


CHART OF THAT PORTION OF IRELAND, WALES, ENGLAND, AND FRANCE, TO WHICH THE SOLAR ECLIPSE OF OCTOBER 9TH, 1847, WILL BE ANNULAR.

HIGH WATER.

A TABLE of the difference between the Times of High Water at London Bridge and at the chief Ports and Places in Great Britain and Ireland, as formed from local Tide Tables, and the best works on Navigation :-

COAST OF ENGLAND.

			а. м			A M.	
St. Agnes Lights	••	Add	2 23	Hull		Add 3 53	3
Aldborough		••	8 38		ance	3 23	3 I
Aldomov Island			4 38			9 53	
Alderney Island	••	••			••		
Arundel	••	••	9 8	Lands-end	••		
Barnstaple Bar	• •	• •	3 23	Liverpool Dock	••	9 15	
Beachy Head	• •	••	9 43	Lynn Dceps	••	· · · 3 58	
Bridgewater	••	••	4 38	Margate Picr	••	Subt. 2 2	١ ١
	••	••	2 23		••	Add 1 53	
Bridlington						9 43	
Bridport	••	••		Newhaven	••		
Brighton	••	••	9 3	Nore Light	••	Subt. 0 58	
Bristol			5 8	Orfordness	••	Add 8 33	3
Chatham	••	Subt.	1 13			2 23	3
Chicbester Harbour		Add	9 23	Plymouth Dock-yar	đ	3 26	: 1
Concester Harbour			0 38		_		
Coquet Island	••	••					
Cromer	• •	••	3 49		ard	9 33	
Cornwall Cape	• •	••	2 23	Ramsgate Harbour	••	9 13	
Cuckold's Point	••	Subt.	0 6		••	8 33	3
Dartmouth Harbour	••	Add	3 58			2 18	ш
			9 8			2 25	
	••	••	9 3				
Dover Pier	• •	••					
Downs (Stream)	••	••	0 38		••	Add 0 53	
Dungeness		• •	8 43	Shoreham Harbour	••	9 8	
Eddystone Lighthou	se	••	3 8		••	9 33	١
Exmouth Bars	••	••	4 18	Spithead (Stream)	••	7 23	
			3 8		••		
Falmouth	••	••		Spurn Lights			
Flamborough Head	••	••	2 23		••	0 53	
Foreland (North)	••	••	9 33		• •	3 58	
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To find the time of High Water at any of these places we must proceed as follows:—Find the Time of High Water at London Bridge as given in the Calendar, and and the number opposite to the given place, or SUBTRACT it according as it has Add or Subt. prefixed to it; and the sum or difference is the time of High Water at that place. Attention must be paid to the following Notes:—

I. When the two numbers are added, if the sum be more than 12 hours, reject the 12 hours, and the remainder is the time of High Water in the afternoon, if the morting tide at London Bridge was taken, or the next day's morning tide, if the afternoon tide at London Bridge was taken.

II. f the Interval at the given place is to be subtracted, and is greater than the

II. f the interval at the given place is to be subtracted, and is greater than the time of High Water at London Bridge, increase the time at London Bridge by 12h., and then subtract, and the remainder is the time of High Water at the given place in the morning, if the afternoon tide at London Bridge was taken, or in the afternoon of the preceding day, if the morning tide was taken.

EXAMPLES.—At what times, on January 1st, is it high water at St. Agnes Lights?

Bridge on that day are 3 in. 42m. A St. Agnes Lights (from table) add 2h. 23m. 2h. 23m.

The sum is the time of high water .. 4h. 5m. $\left\{ \begin{array}{ll} morn - \\ ing \end{array} \right\}$ 4h. 29m. afternoon

Ex. 2.—At what times at Aldborough, on January 6th? The times of high water in the Almanack are 4th. 51m. morning and 5h. 9m. afternoon Aldborough (from table) add 8h. 38m. ... 8h. 38m. ...

Reject 12h. in both cases, according to Note 1; and the times are 1h, 29m. on the afternoon of the 6th, and 1h. 47m. in the morning of the 7th.

To find the time of first high water on January 6th, it will be necessary to use the time in the Almanack for the afternoon of the 5th.

It must be borne in mind that the varying pressure of the atmosphere as well as the direction of strong winds, have a great effect on both the times and the beights of High Water. Thus, in the North Sea, a strong N.N.W. gale and a low barometer, will raise the surface two or three fect higher than usual, and cause the tide to flow half an hour longer all along the coast to London, than the pre-

dicted times in the ealendar.

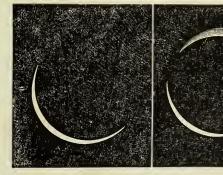
An E., a S.E., or a S.W. wind, will produce an opposite effect, so that at times the prediction may be in error half an lour or more.—(See fool note to page 256 of Greenwich Magnetical and Meteorological Observations for 1841.)

(Continued from page 41.)

The Astronomer Royal, G. B. Airy, Esq. made a journey to Turin for the purpose of observing the Eclipse; and in his account of the phenomena, to the Royal Astronomical Society, he remarks that he saw nothing whatever of beads or other irregularity in either of the extinctions of the Sun's limb. But the appearance of the Moon can never be forgotten—it was like a black patch fixed in the sky, surrounded by a ring of faint light, whose breadth he estimated at 1-stb of the Moon's diameter. He then says, "I gazed earnestly at this remark-

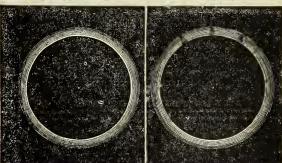
APPEARANCE OF THE SUN A SHORT TIME BEFORE TOTALITY.

APPEARANCE OF THE SUN AND MOON ONE OR TWO SECONDS OF TIME BEFORE TOTALITY.



able ring, and I could not divest myself of the idea that it was produced by the Sun's light shining past the Moon's body through a portion of our own atmosphere. I wish it to be understood elearly that I do not offer this as an explanasphere. I was it to be understood elearly that I do not offer this as an explanation of the ring, (indeed, considering the number of miles by which the Moon's limb overpassed the line drawn from the place of observation to the Sun's limb, I cannot now consider such an explanation feasible)." After a few other remarks on this ring, he proceeds: I took off the dark glasses, and carefully examined the Moon with the telescope. Her disc was distinctly visible as having independent light; and I think that if it had been stronger I might have seen the large

APPEARANCE OF THE MOON AT THE APPEARANCE OF THE MOON AFTER MIDDLE OF THE ECLIPSE THE MIDDLE OF THE ECLIPSE



tracts of different brightness on her disc. I could not, however, see the smallest inequality of light of the nature of broad dark tracts, or dark spot, or bright spot.

inequality of light of the nature of broad dark tracts, or dark spot, of bright spot.

"While thus looking at the Moon, I saw, to my great surprise, some small red flames at the apparent bottom of the disc (the top as seen with the naked eye). The number of flames, as I have them impressed on my memory, and as I find them drawn on a small pencil sketch made a few minutes after their appearance, was three; their form was nearly that of saw-teeth in the position proper for a circular saw turned round in the same direction as the hands of a watch turn. (See the fifteenth vol. of the Memoirs of the Royal Astronomical Society). The preceding are copies of the drawings made by the Astronomer Royal."

A TABLE. SHOWING THE TIMES OF SUN-RISING AND SUN-SETTING AT LONDON, AND AT THE CHIEF CITIES AND TOWNS IN GREAT BRITAIN AND IRELAND.

NAMERO OF PLACES SITUATED AND AND ADDRESS The Sun Rises lster and Set earlier, as in January, Fehru-ary, and March, therefore, add to time of Sun-rising, and sub-tract from time of Sun-set-The Sun Rises earlier than at London, therefore, suhtract the number of minutes in this table, under the month and day, in the required place, from the time of Sun-rising found on that day in the Almanack; and the result is the time of his Rising at the place required; and the Sun Sets later, therefore, add the number of minutes in this table to the tima of Sun-setting on the day found Almanack. And he Sets ear-lier, therefore, suhtract the number of minutes from the time of Setting that day, in the Almanack. in the Almanack. And Sunset on that day is . 4 1 Almanacl And for Sunset authract . 0 45 January. h. m.
Time of Sun-rise on Jan.
1., In the Almanack, is 8 8
Opposite to Edinburgh
on that day is, add . . 0 45 . 0 45 September October November. December. February. May. April. June. July. August, The Sum is the Time of The diff is time 1 Sun-rise at Edinhurgh , 8 53 of Sun-setting 3 16 lst, 15th. 1st. | 15th 15th 15th 1st. 15th 1st. 15th 1st 15th 1st. 15th 1st. 15th 1st. 15th. 1st. 15th. lst 15th. lat. 1st. m. m. m m. 41 22 26 33 36 36 25 Berwick, Edinburgh, Linlithgow, Kinross, Stirling, Glasgow, Dunhar, Leith, Greenock 27 Alnwick, Jedhurgh, Selkirk, Sanquhar, Ir-Alnwick, Jedhurgh, Selkirk, Sanquhar, Irvine, Ayr

Newcastle, Shields, Carlisle, Annan, Dumfres, Kirkcudbright, Wigtown, Carrickfergus, Antrim, Londonderry

Scarhorough, Whitby, Stockton, Penritb, Whitehaven, N. part of Isle of Man, Belfast, Clogher, Ballyshannon, Sligo

Flamborough, York, Lancaster, S. part of Isle

Man, Nagyer, Dundelk, Cayan, Castlebar, Chan, Nagyer, Dundelk, Cayan, Castlebar, S. part of Side, Stan, Castlebar, Cayan, Cay .. 23 Clare
Yarmouth, Norwich, Ely, Peterhorough, Leicester, Coventry, Lichfield, Montgomery,
Aberystwith, Enniscortby, Wexford, Kilkenny, Clonmel, Cashell, Limerick
Aldborough, Ipswich, Newmarket, Royston, Bedford, Buckingham, Cheltenham, Here-ford, Brecon, Cardigan, Waterford, Dun-garvon, Cork, Killarney, Valentia garvon, Ori, Kinaner, Vadentie, Ramsgate, Margate, Sheerness, Gravesend, Richmond, Windsor, Wallingford, Eton, Maidenhead, Marlborough, Bath, Bristol Newport, Cardiff, Pemhroke, Kinsale, The times of Sun-rising and Sun-setting at those places are those given daily in the Illustrated London ALMANACK. Bantry NAMES OF PLACES situated SOUTH of London. The numbers opposite to any particular place are to be used for itself and all Villages near it. Example: At what time will the Sun Rise and Set at Brigh-ton on Jan. 15.— The Sun Rises earlier than at London, therefore, auhtract from the time of Sun-rising; and he Sets later, therefore, add to time of Sun setting. The Sun Rises earlier, than at London, therefore, subtract from the time of Sun-rising. He Sets later, therefore, add to time The Sun Rises later than at London, therefore, add to time of Sun-Rising. He sets earlier than at London, therefore, suhtract from time of Sun-setting. h. m | h. m. of Sun-setting. The time of Sun rise at Brighton ls 4 23 m. m./ m. m. m. m. m. m m. m. m. m. m. m. m m. m. m. m. Dover, Folkestone, Hythe, Tunhridge Wells' m. m m. m. m. Winchester, Southampton, Shaftesbury, Sa-lisbury, Taunton, Bridgewater, Barnstaple Brighton, Portsmouth, Newport Isle of Wight, Lymington, Dorchester, Exeter, Launceston Dartmouth, Truro, Penzance 3 5 6

On March 21st, and on September 23d, the time of Sun-rising and Setting at all places in Great Britain and Ireland, are the same as those given in the Almanack.

MAGNETIC DECLINATION OR VARIATION OF THE COMPASS.

If we suspend a magnetised har to a filament of silk, so that it can move freely in a horizontal direction, it makes a series of oscillations, and finally settles in a determinate position, and whenever moved from this position it always returns to it, or very nearly so.

The place in which the needle remains thus at rest, is called the magnetic meri-The place in which the needle remains thus at rest, is called the magnetic meridian. At Greenwich, this meridian makes with the astronomical meridian, an angle of about 23\cdot^0 towards the west. This is named magnetic declination, or, popularly, "variation of the compass;" and it is termed west or east, according as the magnet-har, that is turned towards the north, (and which is called the north end, or the marked end of the magnet), is east or west of the astronomical meridian.

Everywhere on the surface of the Earth the magnet takes a determinate posi-Everywhere on the surface of the Earth the magnet takes a determinate position, but this position is different in different places. Starting from Greenwich the western variation is found to increase as we proceed towards the west, and attains its greatest value, at present, in the Atlantic Ocean. From this point the western variation diminishes; and, at the east of the United States of America, the magnet points exactly to the north, and the variation is nothing; more westward, it hecomes east. Starting from Greenwich, and proceeding towards the east, the west variation is found to diminish, and to he nothing at the eastern part of the Russian empire; and then it becomes east, and more east as we proceed further towards the east. ceed further towards the east.

At the end of the year 1840, a magnet was suspended at the Royal Observatory, at Greenwich, by a skein of silk, freed from all twist, and its position has heen examined and recorded every two hours, night and day, from that time to the present, except on Sundays, Good Fridays, and Christmas-days. The observations and the results for the years 1841, 1842, and 1843, have heen published. From the 12 observations thus taken daily, the extent of daily motion of the magnet has heen deduced, and the average of the 12 taken to deduce the average daily position of the magnet; from the latter, the average monthly position has heen deduced, and from these that of each of the years.

The following are the monthly values :-

26	43.	- 1	WESTERN VARIATIONS IN THE YEARS										
,310	onth		1841				1842			1843			
		 	0	,	//	0	,	11	0	,	"		
January .			23	11	46	23	11	54	23	11	31		
Fehruary				17	35		15	23		9	56		
March .				19	14		10	35	1	7	19		
April .				11	46		11	0		4	48		
May .	Ĭ			17	38	1	11	39		6	10		
June .				16	11		13	59		12	31		
July .				15	34		17	14	1	11	18		
August .				19	1		15	10		11	21		
September				24	19	1	14	11		16	31		
October .				12	18		18	4		16	12		
November		- 10		17	11		17	22	1	15	50		
December		- 1		11	5	1 .	17	22	1	17	3		

From these numbers it will be seen that the changes of position are frequent and large.

> The average value for the year 1841 was 23 16 1842 ,, 23 14 29 1843 ,, 23 11 43 ,,

It is found that upon the three years' observations, that at about 7 o'clock in the morning, the marked end of the magnet hegins to move to the westward, and, therefore, the variation increases; this increase continues till about 1h. P.M., at which time the variation is at its maximum. The increase hetween 7h. A.M., and 1h. P.M., is about 7% minutes of arc.

The marked end of the magnet then moves towards the east, and the variation

diminishes, from lh. P.M. till about 11h. P.M., the amount of the decrease being

about 8½ minutes of arc.

The variation then increases from about 11h. P.M., to about 5h. A.M; the in-

crease being about three-fourths of a minute of arc.

The variation then diminishes between 5h. A.M., and about 7h, A.M., by about

half of a minute. During these increases and decreases the variation twice reaches its mean value,

During these increases and decreases the variation twice reaches its mean value, viz., a little after 9h. a.m., and about 5h. p.m.

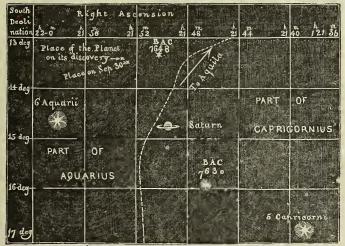
The above remarks are deduced from the yearly average of all the observations taken at the same hours; but when the daily motion is examined in different parts of the year it is found to be different. In summer the daily range of the magnet is nearly 11 minutes, whilst in winter it is only 7½ minutes. In summer there appears to be a double approach to, and a double receding from, the astronomical meridian, whilst in winter there appears to be a single oscillation only.

On some days the change of position is as small as 3 minutes; whilst on other days it may amount to one or two degrees, or even more; and frequently it will amount to half of a degree. At times the magnet will move according to its average motion for many days, or even several months together; at other times it will suddenly depart from its usual motion, and continue thus moving irregularly for an hour, or for several days, and in a few cases it has been for several days It will suddenly depart from its usual motion, and continue thus moving irregularly for an hour, or for several hours; and in a few cases it has been for several days together, under some cause of disturbance. In 1841, on September 25th, the magnet was greatly disturbed, and it was recorded to be in positions such that the variation was 22° 14m, and 24° 30m, and at every position between these; but it is believed by the observer, Mr. Glaisher, from the fact of it moving further than the above positions, on both sides, that the variation of the compass on this day was less than 22° and greater than 25°. [See Greenwich Magnetical Observations for 1841, (page 41 to 49), and at page 4 of Abstracts; and also the volumes for 1842 and 1843, for particulars of other days of disturbance.] It is found, too, that on days of disturbance that magnets distributed all over the world move irregularly. (For a description of the Magnetical and Meteorological Observations at Greenwich See the LULYBRATEL LONDON NEWS for March 16, 1844, 16. gularly. (For a description of the Magnetical and Meteorological O Greenwich See the ILLUSTRATEN LONDON NEWS for March 16, 1844.)

LE VERRIER'S NEW PLANET.

A NEW Planet beyond Uranus was discovered at the latter part of 1846, under the most interesting circumstances, which are as follow:—

In the year 1781, on March 13, Uranus was discovered by Sir William Herschel



SCALE HALF AN INCH TO A DEGREE.

who was examining some small stars near the feet of Gemini, and he observed one of them to have a sensible amount of diameter and less brightness than the others, and it was soon found to be a Planet; it, however, had been seen before, first, by Flamsteed, on December, 23rd, 1690; and, between this time and 1781, it had been observed sixteen times by Flamsteed, Bradley, Mayer, and Lemonnier; these astronomers had classed it as a star of the 6th magnitude. Between 1781 and 1820 it was of course very frequently observed, and it was hoped that at the latter time sufficient data existed to construct accurate tables of its motions; this task was undertaken by M. Bouvard, member de D Academie des Sciences, but he met with unforeseen difficulties. It was found utterly impossible to construct tables which would represent the seventeen ancient observations, and, at the tables which would represent the seventeen ancient observations, and, at the same time, the more numerous modern ones; and it was flually concluded that the ancient observations were erroneons, or that some strange and unknown action disturbed, or had disturbed, the Planet; consequently, M. Bouvard discarded entirely the old observations, and used only those taken between 1781 and 1820, in constructing the tables of Uranus. For some years past, it has been found that the tables thus constructed do not agree any better with odern observations, than they do with the ancient observations; consequently, it was evident that the Planet was under the influence of some unknown cause. Several hypotheses have been suggested as to the nature of this cause; some persons talked of a resisting medium; others, of a great satellite which might accompany Uranus; some even went so far as to suppose that the vast distance uranus is from the sun caused the law of gravitation to lose some of its force

Uranus is from the sun caused the law of gravitation to lose some of its force; others thought that the rapid flight of a Comet had disturbed its regular movements; others thought potentially of the existence of a Planet beyond Uranus, whose disturbing force caused the anomalous motions of the Planet; but no one did other wise than follow the bent of his inclination, and did not support his assertion by

any positive considerations Thus was the theory of Uranns surrounded with difficulties, when M. Le Ver-rier, an eminent French mathematiciau, undertook to investigate the irregularities in its motions. His first paper appeared on the 10th of November, 1845, and his second on June 1, 1846, published in the "Comptes Rendûs," In this second paper, after a most telaborate and careful investigation, he proves the utter incompatibility of any of the preceding hypotheses to account for the Plauet's motions, except only that of the last one, viz., that of a new Planet. He then successively proves that this Planet cannot be situated either between the Sun and Saturn, or between Saturn and Uranus; but that it must be beyond Uranus. And in this

paper he asks the following questions:—"Is it possible that the inequalities of Uranus can be owing to the action of a Planet, situated in the Ecliptic, at a distance of twice the mean distance of Uranus from the Sun? And, if so, where is it actually situated? What is its mass? What are the elements of the orbit it describes?"

ally situated? What is its mass? What are the elements of the orbit it describes?"
This was the problem he set himself to work upon, by means of solving the inverse problem of the perturbations; for, instead of having to measure the action of a determined Planet, he had to deduce the elements of the orbit of the disturbing Planet, and its place in the heavens, from the recognised inequalities of Uranus. And this problem M.Le Verrier has successfully solved: in his second paper he deduces the place in the heavens that the body must be as 325° of heliocentric longitude. On the 31st of August last he published his third paper. In this he has calculated that the period of the Planet is 217 years, and that it moves in an orbit at the distance of more than 3000 millions of miles from the sun; that its mean longitude, on January 1, 1847, will be 318° 47′; its true longitude, 326° 32′; and that the longitude of its perihelion will be 284° 45′; that it will appear to have a diameter of 3‡ seconds of are, as seen from the Earth; and that it is now about 5° E. of Delta Capricorni.

These remarkable calculations have pointed out a position which has very nearly proved to be the true one.

on Sept. 23rd, Dr. Galle, at Berlin, discovered a star of the eighth magnitude, which has proved to be the Planet; its place at the time is shown in the above

On Sept. 23rd, Dr. Galle, at Berlin, discovered a star of the eighth magnitude, which has proved to be the Planet; its place at the time is shown in the above Chart; it will be seen to be at the distance of 2½ inches on the Chart from Delta Capricorni (in the Chart Delta has been erroneously engraved as 5); and thus it was five degrees from Delta Capricorni: it was found to have a disc of three seconds as predicted; and its longitude at the time differs less than a degree from the longitude computed from the above elements. Its daily motion, too, is found to agree very closely with the predicted; and, judging from this last circumstance, the Planet's distance, as stated above, must be nearly the truth.

Thus the result of these calculations was the discovery of a new Planet in the place assigned to it by theory, whose mass, distance, position in the heavens, orbit it describes round the sun, were all approximately determined before the Planet had ever been seen, and all agrees with observation so far as can at present be determined. It is found to have a disc, and its diameter cannot be mnch less than 40,000 miles, and may be more; its motions are very slow; it is a present in the Constellation of Aquartus as indicated by theory, and it will be in the Constellation of Capricornus all the year 1847. It may be readily seen in a telescope of moderate power. Whatever view we take of this noble discovery it is most gratifying—whether at the addition of another Planet to our list; whether at the proving the correctness of the theory of universal Gravitation; or in what view seever, it must be considered as a splendid discovery, and the merit is chiefly due to Theoretical Astronomy.

This discovery is perhaps the greatest triumph of Astronomical

This discovery is perhaps the greatest triumph of Astronomical Science that has ever been recorded.

Science that has ever been recorded. During the year 1847, the best times for observing it will be as follows:—In August, about one o'clock in the morning; in September, from nine p.m. till midnight; in October, between seveu and ten; in November, between five and eight; and in December, between sunset and six, in the evenings. Saturn will be considerably to the east of the Planet at those times.

HOLIDAYS KEPT AT PUBLIC OFFICES.

At the Bank, the only Holidays in the Dividend Offices are Good Friday and Christmas Day; in the Transfer Offices, besides the above, May I and Nov. I. East India House and Exchequer, Good Friday and Christmas Day. Custom House and the several Public Dock Companies, Christmas Day and Good Friday, and her Majesty's Birthday, May 24. Excise and Stamp Offices, the Holidays are the same as in the Customs, with the addition of Whit Monday, Whit Tractar and May 20. Whit Tuesday, and May 29.

QUARTER SESSIONS IN THE SEVERAL COUN-TIES OF ENGLAND AND WALES.

By the Act 1 Will. IV., c. 70, it is enacted, that "in the year 1831, and afterwards, the Justices of the Peace in every county, riding or division, for which Quarter Sessions of the Peace by law ought to be held, should hold their general Quarter Sessions of the Peace in the first whole week after the 11th of October, in the first week after the 28th December, in the first week after the 31st of March, and in the first week after the 11th of June."

It having been found that some inconvenience occasionally arose from the time It having been found that some inconvenience occasionally arose from the time fixed for holding of the Spring Quarter Sessions interfering with that appointed for holding the Spring Assizes, an Act was passed 4 and 5 Wm. IV., c. xlvii. allowing a discretionary power of the Justices of Peace as to the time of holding the Spring Quarter Sessions, and they are empowered at the preceding Epiphany Sessions to appoint two of their body to alter the day for the Quarter Sessions, if they shall see occasion, so as not to be earlier than the 7th of March, nor such than the 22nd of April; notice of the day so appointed is to be advertised in later papers as the Justices shall direct.

BRITISH PREMIERS, FROM THE YEA	IR 1760—1846.
The Right Honourable William Pitt	- to 1760
Earl of Bute	1761 to 1762
George Granville	. 1762 to 1765
Marquis of Rockingham	1765 to 1766
Duke of Grafton	. 1766 to 1770
Lord North	1770 to 1782
Earl of Shelburne	. 1782 to 1784
Right Honourable William Pitt	 1784 to 1801
Right Honourable Henry Addington	. 1801 to 1804
Right Honourable William Pitt	. 1804 to 1806
Lord Grenville	. 1806 to 1807
Duke of Portland	. 1808 to 1809
Right Honourable Spencer Percival	. 1810 to 1812
Earl of Liverpool	. 1812 to 1827
Right Honourable George Canning	• — to 1827
Viscount Goderich	• 1827 to 1828
Duke of Wellington	. 1828 to 1830
Earl Grey	1830 to 1834
Duke of Wellington (pro. tem.)	- to 1835
Viscount Melbourne	- to 1835
Sir Robert Peel	. 1835 to 1836
Viscount Melbourne	. 1836 to 1841
Sir Robert Peel	. 1841 to 1846
Lord John Russell	. 1846 —

STAMPS AND TAXES.

RE	CEIP	T ST	CAMP	S.

				3.	d.		\$	\cdot \cdot \cdot \cdot	
For £5 and	under	£10		0	3	For £200 and under £300 .	, 4	1 (0
10		20	• •	0	6	300 500 .	. į	5 (0
20		50	••	1	0	500 1000 .			
50		100		1	6	1000 and upwards .	. 10) (0
100	••	200	• •	2	6	In full of all demands	16) (0

N.B .- Persons receiving the money are compelled to pay the duty.

BILLS AND NOTES.

			DIL	MP3 TIT	ω κ	OIL	**				
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								3.	d.	3.	d.
£2	an	d not e	xceeding	£5	58.		••	1	0	1	6
Above 5	5		••	20			• •	1	6	2	0
20			••	30				2	0	2	6
30		• •	••	50			• •	2	6	3	6
50			••	100		• •	••	3	6	4	6
100		• •	••	200		• •	••	4	6	5	0
200			••	300		• •	••	5	0	6	0
300		• •	••	500		••	• •	6	0	8	6
500		• •	••	1000		• •	• •	8	6	12	6
1000			••	2000		••		12	6	15	0
2000		• •	••	3000		••	• /	15	0	25	0
Above	е	••	••	3000		• •	••	25	0	30	0

Promissory Note for the payment of any sum of money by instalments, the same duty as on a Promissory Note payable in less than two mouths.

		BOND	S A	ND	MORTGAGES.					-
Any sum r	ot exceedi	ng £50	£1	0	Above £2,000	and not	ex-			- 1
Above £50	andnotexc	eeding 100	1	10		ceeding	••	3,000.	£7	0
100	••	200	2	0	3,000	••	• •	4.000	8	0
200	••	300	3	0	4,000	••	• •		9	
300	••	400	4	0				10,000		
500	••	1000	5	0	10,000			15,000		
1000	••	2000	6	0	15,000			20,000		0
Bouds	of every 1	080 words a	bove	the	e first, 25s. "	Mor	tgas	zes, 20s.		

Under 50 ... 100 3 300 ... 400 20 Where no such consideration, If the instrument shall not coutain more than 1980 words, £1. And if shall coutain more than that quantity, £1 15s.

PROBATES OF WILLS AND LETTERS OF ADMINISTRATION.

Above the Value \pounds	of	And under. \pounds	With a Will.		Without a Will.
20		50	0 0		10s.
20	••	100	0 10		
50		100	1 0		£1
100	••	200	2 0	••	3
200	••	300	5 0	••	8
300	••	450	8 0	••	11
450	••	600	11 0	• •	15
600		800	15 0	• •	22
800	••	1000	22 0	••	30
1000	••	1500	30 0	••	45
1500	••	2000	40 0	••	60
2000	• •	3000	50 0	••	75
3000		4000	60 0		90
4000	• •	5000	80 0	••	120
5000		6000	100 0		150
	The scale	continues to h	crease up to	£1,000.	000.

APPRAISEMENT STAMPS

Where such appraisement or value s. d. | Above £100 not exceeding £200 £0 10 atlon shail not exceed .. £50 2 6 200 ... 300 0 15 Above £50 and not exceeding 100 5 0 500 1 0

DUTIES ON LEGACIES.

Of the value of £20, or upwards, out of Personal Estæte, or charged upon Real Estate, &c.; and upon every share of Residue—To a chiid, or parent, or any lineal descendant, or ancestor of the deceased, £1 per cent. To a Brother or Sister or their descendants, £3 per cent. To an Uncle, or Aunt, or their descendants, £5 per cent. To a Great Uncle or Great Aunt, or their descendants, £5 per cent. To any other Relation or Stranger in Biood, £10 per cent.—Legacy to Husband or Wife exempt.

If the deceased died prior to the 5th of April, 1805, the duty only attaches on Personal Estates, and by a lower scale.

LICENCES

For Marriage, if special		••	••	£5	0	
Disto, If not special	••	••	••	0	10	
For Bankers	••	••		30	0	
For Pawnbrokers, within th	ne limits of t	he twoper	nny post	15	0	
Elsewhere	••	••		7	10	
For Appraisers	••	••	••	2	0	
For Hawkers and Pedlars, o	on foot			4	0	
Ditto, with one horse, ass, o	r mule	••	••	8	0	
Selling Beer, to be drunk or	n the Premi	ses	••	3	3	
Ditto, not to be drunk on th				1	1	

DOGS.

For every greyhound

For every hound, pointer, setting dog, spaniel, terrier, or lurcher, and for every dog, where two or more are kept, of whatever denomination they may be (except greyhounds)

For every other dog, where one only is kept

Compounding a pack of hounds £1 0 0 0 14 0 0 8 0 36 0 0 0 8 36 0

Farmers with farms under £100 value, and shepherds, are exempt from dogs kept for the care of sheep.

WINDOW TAX

£ s. d. 2 s. d. 2 s. d. <t< th=""><th colspan="11">WINDOW TAX.</th></t<>	WINDOW TAX.										
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Windows	per	Windows	per	Windows	per	Windows				
Farm-houses belonging to Farms under £200 a year arc exempt.	9 10 11 12 13	0 16 6 1 1 0 1 8 0 1 16 3 2 4 9 2 13 3 3 1 9 3 10 0	17 18 19 20 21 22 23	3 18 6 4 7 0 4 15 3 5 3 9 5 12 3 6 0 6 6 9 0 6 17 6	25 26 27 28 29 30 31	7 5 9 7 14 3 8 2 9 8 11 0 8 19 6 9 8 0 9 16 3 10 4 9	33 34 35 36 37 38 39	10 13 3 11 1 6 11 10 0 11 18 3 12 6 9 12 15 3 13 3 6 13 12 0			

. By cap. 17, 3 and 4 Vict.. an additional £10 per cent. is imposed upon all the Assessed Taxes, Customs, and Excise.

DUTIES ON CARRIAGES.

WITH FOUR WHEELS.

No.	Per carriage for private use.	No.	Stage coaches & post chaises.
	£ s. d.		£ s. d.
ı	6 0 0	1	5 5 0
2	6 10 0	2	10 10 0
3	7 0 0	3	15 15 0
4	7 10 0	4	21 0 0
5	7 17 6	5	26 5 0
6	8 4 0	6	31 10 0
7	8 10 0	7	36 15 0
8	8 16 0	8	42 0 0
9	9 1 6	9	47 5 0

WITH TWO WHEELS. 3 5 4 10 1 17 Carriages with two wheels, each 3 Carriages with two wineels, each
Ditto, drawn by two or more horses, or mulcs
For every additional body used on the same carriage
For every additional body
Carriages let by coachmakers, without horses 0 6 6

For every carriage with four wheels, being of less diameter than thirty inches For every carriage with four wheels, being of less diameter than thirty inches each, where drawn by ponies or mules, above twelve and not exceeding thirteen hands, per annum, £3 3s.; if with less than four wheels, and the ponies not exceeding twelve lands, and not let for hirc, exempt. For every carriage with four wheels, drawn by one liorse and no more, per annum. £4 10s. Carriages with less than four wheels, drawn by one horse, and constructed and marked as described by Act 6 & 7 Wm. IV., c. 65, and 1 Vict. c. 61, not exceeding £21 in value; also common stage carts, constructed for the carriage of goods, and occasionally used for riding, are exempt. occarionally used for riding, are exempt.

HORSE TAX.

FOR RIDING OR DRAWING CARRIAGES.

No.	Each Ho	rse.	No.	Ea	ch Ho	rse.	
	£. s.	d.	_ -	£.	8.	d.	
1	1 8	9	11 1	3	3	6	
2	2 7	3	12	3	3	6	
3	2 12	3	13	3	3	9	
4	2 15	0	14	3	3	9	
5	2 15	9	15	3	3	9	
6	2 18	0	16	3	3	9	
7	2 19	9	17	3	4	ō	
8	2 19	9	18	3	4	6	
9	3 0	9	19	3	5	Ó	
10	3 3	6	20	3	6	0	

For Attorneys and Solicitors acting without having been admitted, £100 .- For

For Altorneys and Solicitor's acting without naving been admitted, £100.—For acting without certificate, £50.

For drawing a Bill or Promissory Note upon unstamped paper, or npon paper insinficiently or wrongly stamped, £50.—For post-dating Bills of Exchange, £100. For drawing a Check more than ten miles from the place where made payable, £100.—For receiving the same in payment, £20.—For Bankers paying the same, £100.

For setting out wrong amount in *Conveyance*. On the Attorney, £500. On the Purchaser, £50.

For setting *Patent Medicines, &c , without a license, £20. Without a stamp, £10. For selling *Patent Medicines, &c , without a license, £20. Without a stamp, £10. For printing a *Newspaper* without first making deciaration as to the ownership, &c , £50 for every day such paper shall be printed or published.—For printing without stamps, on each paper issued, £20.

For neglecting or delaying to enter *Pamphlets* at the Stamp Office, or selling without paying duly when demanded, £20.

For *Paunbroker* staking pledges without a licence, £50. For selling *Plate* without a licence, £20. For selling plate without being duly stamped, £50.

For taking possession of the effects of any one deceased, without taking out *Letters of Administration, £100.

For giving an unstamped receipt for money of any amount above £5, £10.

For refusing to give a receipt when demanded for money paid exceeding £5, £10.

CITY OFFICERS.

THE ROYAL FAMILY.

Victoria, Queen, born May 24 1819 Princess Helena May 25 1846	LORD MAYOR.
Prince Albert Aug. 26 1819 Duchess of Kent Aug. 17 1786	Elected September 29th—Sworn in November 8th.
Prince of Wales Nov. 9 1841 Adelaide, Queen Dowager Avg 13 1792 Princess Royal Nov. 21 1840 King of Hanover June 5 1771	The Right Honourable Sir George Carroll, Kt., Candlewick, 1840. SHERIFFS.
Princess Alice April 25 1843 Duke of Cambridge Feb. 24 1774	Elected 24th June—Sworn in 28th September.
Alfred Ernest Albert Aug. 6 1844 Duchess of Gloucester April 25 1776	Alderman Challis. W. R. Kennard, Esq.
HER MAJESTY'S MINISTERS.	UNDER SHERIFFS.
OF THE CABINET.	Mr. F. T. Bircham. Mr. David Williams Wire. ALDERMEN.
First Lord of the Treasury (Premier) Lord John Russell	THE FOLLOWING HAVE NOT PASSED THE CHAIR.
Lord Chancellor Lord Cottenham The Duke of Wellington	Wood, Thomas, Esq., Cordwainer; 3, Corbet-court, Gracechurch-street . 1835 Hooper, John K., Esq., Queenhithe : 20, Queenhithe 1840
Commander-in-Chief The Duke of Wellington Lord President of the Council The Marquis of Lansdowne	Duly Cin Tomos Vt. M.D. Foundanden Without . Potolah lane 1940
Lord Privy Seal The Earl of Minto	Farncomb, Thomas, Esq., Bassishaw; Griffin's Wharf, Southwark 1840 Musgrove, John, Esq., Broad-street; 18, Old Broad-street 1842
Secretaries of State Foreign Sir George Grey Lord Palmerston	Duke, Sir James, M., M., r, raringuon winlow; botophr-lane Farncomb, Thomas, Esq., Bassishaw; Griffin's Wharf, Southwark Musgrove, John, Esq., Broad-street; 18, Old Broad-street Hunter, William, Esq., Coleman-street; 10, Finsbury Circus L843 Challis, Thomas, Esq., Cripplegate; 32, Wilson-street, Finsbury Lynches William, Esq. Bread-street; 17 Great Distaffalane L843
Colonial Earl Grey	Challis, Thomas, Esq., Cripplegate; 32, Wilson-street, Finsbury 1843
Chancellor of the Exchequer Board of Control Sir J. C. Hobhouse	Hughes, Hughes William, Esq., Bread-street; 17, Great Distaff-lane Sidney, Thomas, Esq., Billingsgate; 8, Ludgate-hill 1844
Board of Trade The Earl of Clarendon	Moon, F. G. Esq., Fortsoken; 20, Threadneedle-street 1844
Admiralty The Earl of Auckland	THE FOLLOWING HAVE PASSED THE CHAIR. Hunter. Sir. C S. Bart., Bridge Without: 23, Euston-square
Paymaster-General Mr. Macaulay Chancellor of the Duchy of Lancaster Lord Campbell	Lucas, M. P., Esq., Tower; 21, Water-lane 1821
Woods and Forests Lord Morpeth	Thompson, W. Fsq., M.P., Cheap; Upper Thames-street 1821 Key, Sir John, Bart., Langbourn; 9, King's Arms-yard 1823
Secretary at War Mr. Fox Maule Postmaster-General The Marquis of Clanricarde	Laurie, Sir Peter, Knt., Aldersgate; 7, Park-square, Regent's-park 1826
NOT OF THE CABINET.	Parebrother, C., Esq., Lime-street, O. Dancaster-place, birthia
Master-General of the Ordnance The Marquis of Anglesey Vice President of the Board of Trade Mr. Milner Gibson	Welly T Fog Forringdon Within, 17 Paternoster-row 1830
Master of the Mint Mr. Richard Lalor Sheil	Wilson, Samuel, Esq., Castle Baynard; 24, St. Paul's Chnrch-yard 1831
Secretary of the Admiralty H. G. Ward, Esq. Secretaries of the Treasury T. Parker, Esq., H. Tufnell, Esq.	Wilson, Samuel, Esq., Castle Baynard; 24, St. Paul's Chnrch-yard Marshall, Sir C. Knt., Bridge Within; 43, Russell-square Pitie, Sir John, Bart, Cornhill, 71, Cornhill 1834
Secretaries of the Board of Control The Rt. Hon. G. S. Byng, T. Wyse, Esq.	
C Home Sir William Somerville	Magnay, Sir William, Bart., Vintry; College-hill
Under Secretaries Foreign The Right Hon. E. J. Stanley B. Hawes, Esq., Mr. Charles Buller*	Johnson, John, Esq., Dowgate
Lords of the Treesury Lord Ebrington, H. Rich, Esq. The	LAW COURTS.
O'Conor Don, W. Gibson Craig Esq. Admiral Dundas, Admiral Sir W Par-	CHANCERYLord High Chancellor, Lord Cottenham. Master of the Rolls, Lord
Lords of the Admiralty) ker, Capt. the Hon, F. Berkeley,	Langdale. Vice Chancellor, Sir L. Shadwell. First Vice Chancellor, Sir James
Capt. Lord J. Hay, The Hon. W. Cowper, Admiral Sir C. Adam	L. K. Bruce, Second ditto, Sir James Wigram. Queen's Bench.—Lord Chief Justice, Lord Denman. Judges, Sir John Patteson,
Secretary Lord Charles Paget	Sir John Williams, Sir John T. Coleridge, Sir Wm. Wightman, Sir Wm. Erle. COMMON PLEAS.—Lord Chief Justice, Sir Thomas Wilde. Judges, Sir Thomas
Ordnance Clerk The Hon. G. Anson Colonel C. R. Fox	Common Pleas.—Lord Chief Justice, Sir Thomas Wilde. Judges, Sir Thomas Coltman, Sir Wm. Hen. Maule, Sir W. Creswell, Sir Vaughan Williams.
Attorney General Sir John Jervis	Coltman, Sir Wm. Hen. Maule, Sir W. Creswell, Sir Vaughan Williams. Exchequer.—Lord Chief Baron, Sir Frederick Pollock. Barons, Sir James
Solicitor-General Mr. Dundas Judge-Advocate Mr. Charles Buller	Parke, Sir Edw, H. Alderson, Sir Robert M. Rolfe, Sir Thomas J. Platt. RAILWAY BOARD.—Chief Commissioner, Edward Strutt, Esq., M.P., 42, South
Judge-Advocate Mr. Charles Buller IRELAND.	Street.
Lord Lieutenant The Earl of Besborough	COURT OF BANKRUPTCY.
Lord Chancellor The Right Hon. M. Brady Chief Secretary Mr. Labouchere	Chief Judge, Vice Chancellor Bruce
Attorney General Mr. Moore	Chief Registrars, Mr. Sergeant Edward Lawes and Mr. Oyrler Deputy Registrars, Messrs. Campbell, Winslow, Pollock, Whitehead,
Solicitor-General Mr. Monaghan	Deputy Registrars, Messis. Campbell, Whistow, Tollock, Whitehead,
	Miller and Abrahall
SCOTLAND Mr. A. Rutherfurd	Miller and Abrahall Registrar of Meetings, Jeremlah Hodgson, Esq., Resident
SCOTLAND. Lord Advocate Mr. A. Rutherfurd Solicitor-General Mr. T. Maitland	Miller and Abrahall Registrar of Meetings, Jeremlah Hodgson, Esq., Resident Enrolment Office, Mr. Church
SCOTLAND. Lord Advocate Solicitor-General Mr. A. Rutherfurd Mr. T. Maitland Mr Buller also holds the office of Judge Advocate.	Miller and Abrahall Registrar of Meetings, Jeremlah Hodgson, Esq., Resident Enrolment Office, Mr. Church Commissioners, Mr. Sergeant Goulburn, J. Evans, J. S. M. Fonblanque, R. G. C. Fane, E. Holroyd, and J. H. Shepherd, Esgrs.
SCOTLAND. Lord Advocate Solicitor-General Mr. A. Rutherfurd Mr. T. Maitland Mr. Buller also holds the office of Judge Advocate. THE QUEEN'S HOUSEHOLD.	Miller and Abrahall Registrar of Meetings, Jeremlah Hodgson, Esq., Resident Enrolment Office, Mr. Church Commissioners, Mr. Sergeant Goulburn, J. Evans, J. S. M. Fonblanque, R. G. C. Fane, E. Holroyd, and J. H. Shephcrd, Esqrs. Birmingham, John Balguy, Q. C., Esq., and Robert Daniell, Esq.
SCOTLAND. Lord Advocate Solicitor-General Mr. A. Rutherfurd Mr. T. Maitland Mr. Buller also holds the office of Judge Advocate. THE QUEEN'S HOUSEHOLD. Lord Steward Lord Chamberlain The Earl Spencer	Miller and Abrahall Registrar of Meetings, Jeremlah Hodgson, Esq., Resident Enrolment Office, Mr. Church Commissioners, Mr. Sergeant Goulburn, J. Evans, J. S. M. Fonblanque, R. G. C. Fane, E. Holroyd, and J. H. Shepherd, Esqrs. Birmingham, John Balguy, Q.C., Esq., and Robert Daniell, Esq. Liverpool, Walter Skirrow, Esq., and — Perry, Esq. Manchester, Ebenezer Ludlow, Esq., Sergeant, and William Thomas
SCOTLAND. Lord Advocate Solicitor-General Mr. A. Rutherfurd Mr. T. Maitland Mr. Buller also holds the office of Judge Advocate. THE QUEEN'S HOUSEHOLD. Lord Steward Lord Chamberlain Vice-Chamberlain Lord Chamberlain Lord E Howard	Miller and Abrahall Registrar of Meetings, Jeremlah Hodgson, Esq., Resident Enrolment Office, Mr. Church Commissioners, Mr. Sergeant Goulburn, J. Evans, J. S. M. Fonblanque, R. G. C. Fane, E. Holroyd, and J. H. Shephcrd, Esqrs. Birmingham, John Balguy, Q. C., Esq., and Robert Daniell, Esq. Liverpool, Walter Skirrow, Esq., and — Perry, Esq. Manchester, Ebenezer Ludlow, Esq., Sergeant, and William Thomas Jemmett, Esq.
SCOTLAND. Lord Advocate Solicitor-General Mr Buller also holds the office of Judge Advocate. THE QUEEN'S HOUSEHOLD. Lord Steward Lord Chamberlain Vice-Chamberlain Master of the Horse Clerk Marshal and Chief Equerry Lord Alfred Paget	Miller and Abrahall Registrar of Meetings, Jeremlah Hodgson, Esq., Resident Enrolment Office, Mr. Church Commissioners, Mr. Sergeant Goulburn, J. Evans, J. S. M. Fonblanque, R. G. C. Fane, E. Holroyd, and J. H. Shepherd, Esqrs. Birmingham, John Balguy, Q.C., Esq., and Robert Daniell, Esq. Liverpool, Walter Skirrow, Esq., and — Perry, Esq. Manchester, Ebenezer Ludlow, Esq., Sergeant, and William Thomas Jermett, Esq. Leeds, Martin John West, Esq., and Montague Bere, Esq. Bristol, H. J. Stephen, Esq., Sergeant, and Richard Stevenson, Esq.
SCOTLAND. Lord Advocate Solicitor-General Mr. A. Rutherfurd Mr. T. Maitland Mr. Buller also holds the office of Judge Advocate. THE QUEEN'S HOUSEHOLD. Lord Steward Lord Chamberlain Lord Chamberlain Master of the Horse Clerk Marshal and Chief Equerry Treasurer of the Household Lord Alfred Paget Lord Alfred Paget Earl Jermyn	Miller and Abrahall Registrar of Meetings, Jeremlah Hodgson, Esq., Resident Enrolment Office, Mr. Church Commissioners, Mr. Sergeant Goulburn, J. Evans, J. S. M. Fonblanque, R. G. C. Fane, E. Holroyd, and J. H. Shepherd, Esqrs. Birmingham, John Balguy, Q. C., Esq., and Robert Daniell, Esq. Liverpool, Walter Skirrow, Esq., and — Perry, Esq. Manchester, Ebenezer Ludlow, Esq., Sergeant, and William Thomas Jermett, Esq. Leeds, Martin John West, Esq., and Montague Bere, Esq. Bristol, H. J. Stephen, Esq., Sergeant, and Richard Stevenson, Esq. Exeter, Edward Goulburn, Esq., Sergeant
SCOTLAND. Lord Advocate Solicitor-General Mr Buller also holds the office of Judge Advocate. THE QUEEN'S HOUSEHOLD. Lord Steward Lord Chamberlain Vice-Chamberlain Master of the Horse Clerk Marshal and Chief Equerry Lord Alfred Paget	Miller and Abrahall Registrar of Meetings, Jeremlah Hodgson, Esq., Resident Enrolment Office, Mr. Church Commissioners, Mr. Sergeant Goulburn, J. Evans, J. S. M. Fonblanque, R. G. C. Fane, E. Holroyd, and J. H. Shepherd, Esqrs. Birmingham, John Balguy, Q. C., Esq., and Robert Daniell, Esq. Liverpool, Walter Skirrow, Esq., and — Perry, Esq. Manchester, Ebenezer Ludlow, Esq., Sergeant, and William Thomas Jermett, Esq. Leeds, Martin John West, Esq., and Montague Bere, Esq. Bristol, H. J. Stephen, Esq., Sergeant, and Richard Stevenson, Esq. Exeter, Edward Goulburn, Esq., Sergeant Newcastle, N. Ellison, Esq.
SCOTLAND. Lord Advocate Solicitor-General Mr. A. Rutherfurd Mr. T. Maitland Learl Spencer Lord Chamberlain Lord E. Howard The Duke of Norfolk Lord Advocate. The Earl Spencer Lord E. Howard The Duke of Norfolk Lord Advocate. Lord E. Howard The Duke of Norfolk Lord Advocate. Lord E. Howard Lord Marcus Hill Master of Buck-hounds Lord Marcus Hill Earl Granville Viscount Falkland	Miller and Abrahall Registrar of Meetings, Jeremlah Hodgson, Esq., Resident Enrolment Office, Mr. Church Commissioners, Mr. Sergeant Goulburn, J. Evans, J. S. M. Fonblanque, R. G. C. Fane, E. Holroyd, and J. H. Shepherd, Esqrs. Birmingham, John Balguy, Q. C., Esq., and Robert Daniell, Esq. Liverpool, Walter Skirrow, Esq., and - Perry, Esq. Manchester, Ebenezer Ludlow, Esq., Sergeant, and William Thomas Jemmett, Esq. Leeds, Martin John West, Esq., and Montague Berc, Esq. Bristol, H. J. Stephen, Esq., Sergeant, and Richard Stevenson, Esq. Exeter, Edward Goulburn, Esq., Sergeant Newcastle, N. Ellison, Esq. INSOLVENT DEBTORS' COURT.
SCOTLAND. Lord Advocate Solicitor-General *Mr Buller also holds the office of Judge Advocate. THE QUEEN'S HOUSEHOLD. Lord Steward Lord Chamberlain *Vice-Chamberlain Master of the Horse Clerk Marshal and Chief Equerry Treasurer of the Household Master of Buck-hounds Captain of Gentlemen at Arms Captain of Gentlemen at Arms SCOTLAND. Mr. A. Rutherfurd Mr. T. Maitland Earl Fortescue The Earl Spencer Lord E. Howard The Duke of Norfolk Lord Advocate. **Earl Fortescue Lord E. Howard The Duke of Norfolk Lord Advocate. **Earl Jermyn Lord Marcus Hill Earl Granville Viscount Falkland Lord Foley Earl of Listowel, Lord Camoys, Lord	Miller and Abrahall Registrar of Meetings, Jeremlah Hodgson, Esq., Resident Enrolment Office, Mr. Church Commissioners, Mr. Sergeant Goulburn. J. Evans, J. S. M. Fonblanque, R. G. C. Fane, E. Holroyd, and J. H. Shepherd, Esqrs. Birmingham, John Balguy, Q. C., Esq., and Robert Daniell, Esq. Liverpool, Walter Skirrow, Esq., and — Perry, Esq. Manchester, Ebenezer Ludlow, Esq., Sergeant, and William Thomas Jemmett, Esq. Leeds, Martin John West, Esq., and Montague Bere, Esq. Bristol, H. J. Stephen, Esq., Sergeant, and Richard Stevenson, Esq. Exeter, Edward Goulburn, Esq., Sergeant Newcastle, N. Ellison, Esq. INSOLVENT DEBTORS' COURT. Chief Commissioner, H. R. Reynolds, Esq. Lead, T. Master, H. C. Richards, Esq.
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LL.D.

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Letters or packets exceeding 16 ounces in weight, not forwarded—except,
Parliamentary petitions and addresses to her Majesty,
Parliamentary proceedings,
Letters or packets addressed to, or received from, places beyond sea, or
To and from public departments and public officers.
HOURS OF POSTING.
FOR THE EVENING MAILS.
The receiving houses close at 5 30 P.M. Letters are received for the evening's dispatch at the Branch Post-offices at Charing-cross, Old Cavendish-street, and 108 Elackman-street. Southwark, until 6 P.M. and with a fee of one person. dispatch at the Branch Post-offices at Charing-cross, Old Cavendish-street, and 108 Blackman-street, Southwark, until 6 P.M., and, with a fee of one penny, which must be paid by affixing a stamp to the letter, until 6 45 P.M. At the Branch Post-office in Lomhard-street, the hox remains open without additional fee until 6 P.M., and until 7 P.M., by affixing a penny stamp. At the General Post-office in St. Martin's-le-grand until 6, free, and 7 by payment of the extra charge as at Lombard-street. From 7 to half-past 7 P.M., letters may be posted there upon payment of a fee of sixpence each, which must, as well as the postage, be prepaid. Letters intended to pass by outward mails to foreign parts must be posted at the shove hours.

be prepaid. Letters intended to pass by outward mails to foreign parts must be posted at the above hours.

N.B. Newspapers for the evening malls must be put into the receiving houses before 5 p.m., the Branch offices before 5 30, or General Post-office before 6 p.m. From 6 p.m. to 7 30, on payment of one halfpenny late fee.

Morning Mails are forwarded to most of the principal towns in England and Wales, and to all parts of Ireland and Scotland, for which the letter hoxes at the Receiving Houses will be open till 7, a.m. for newspapers, and 8, a.m. for letters; and those at the Branch Offices, Charing-cross, Old Cavendish-street, and the Borough, for newspapers until half-past 7, a.m., and for letters until 8, a.m. 4the General Post Office and the Branch Office in Lomhard-street, the hoxes will close for newspapers at a quarter hefore 8, a.m., and for letters at half-past 8, a.m. Foreign letters are subject to various rates of postage, the amounts of which can be ascertained at any of the Branch Offices or Receiving Houses.

** ** It is requested that all letters be fully and legibly addressed, and posted as early as convenient. Also, that whatever kind of stamp is used, that it invariably stand on the right hand corner of the letter above the address.

British and Colonial papers between British Colonies, without passing through

British and Colonial papers between British Colonies, without passing through the United Kingdom to be free; oxcept that ld. may be allowed as a gratuity to the master of the vessel conveying them.

Newspapers, British, Foreign, or Colonial, passing between British or Colonial and Foreign Ports, and through the British post, to pay 2d.; if not through the

British post, 1d.

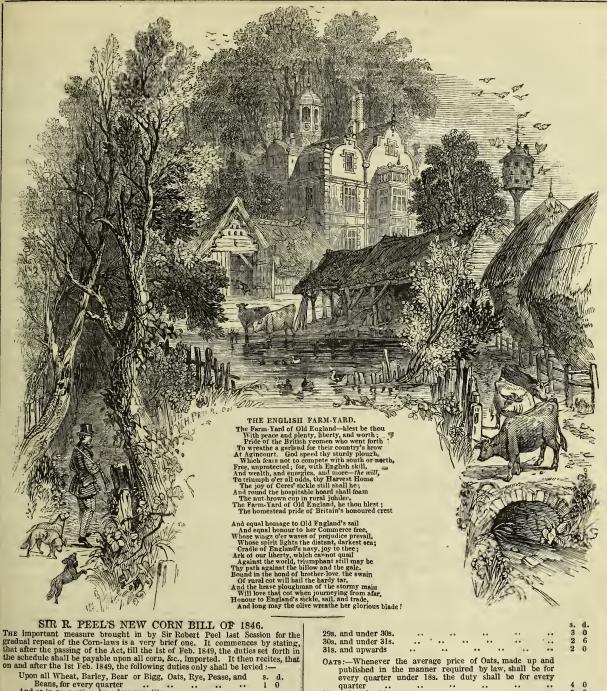
Such papers passing between places in British North America or British West Indian Colonies, to pay a uniform inland rate of $\frac{1}{2}d$. Each supplement to be charged as a separate newspaper, whether inclosed

separately or not.

The Postage rate to Hanover is altered to a uniform British rate of 6d.; pre-payment of the whole postage of British and Foreign rates optional. News-

papers 1d.

MONEY ORDERS for sums not exceeding £2 are charged threepence; not exceeding £5, sixpence: above £5 no money order can be obtained. They are granted and paid between the hours of ten and four daily. Persons residing in London should instruct their correspondents who may obtain money orders, to make them payable at the most convenient office, as money orders granted, bearing "Post Office". London" can be paid at the principal office only, in St. Martin's-le-Grand.



on and after the 1st Feb. 1849, the following duties only shall be levied:

Upon all Wheat, Barley, Bear or Bigg, Oats, Rye, Pease, and s. d.
Beans, for every quarter ... 1 0

And so in proportion, for a less quantity.
Upon all Wheat Meal and Flour, Barley Meal, Oatmeal, Rye
Meal and Flour, Pea Meal, and Bean Meal, for every cwt. 0 4\frac{1}{2}

And so in proportion for a less quantity.
The average prices are to be still made up according to the regulations made by 5 and 6 Victoria, cap. 14.
The following is the schednle above referred to:

If imported from any foreign country.
WHEAT:—Whenever the average price of Wheat made up and published in the manner required by law shall be for every s. d. quarter under 48s., the duty shall be ... 10 0

48s. and nnder 49s. 9 0 0000000 48s. and nnder 49s. 49s. and under 50s 987654 50s. and under 51s. 51s. and under 52s. 52s and under 53s. 53s. and npwards

Barley, Bear, or Bigg:—Whenever the average price of Barley, made up and published in the manner required by law, shall be for every quarter under 26s., the duty shall be for every quarter.

26s. and under 27s.

27s. and under 28s.

0 28s. and under 29s.

20s. and under 21s. 21s. and under 22s. 22s. and npwards

Seventy-two points, a dity equal in another to the day posts of equal Pease or Beans.

If the produce of and imported from any British Possession out of Europe: Wheat, Barley, Bear, or Bigg, Oats, Rye, Pease, and Beans, the duty shall be for every quarter

Wheat Meal, Barley Meal, Oatmeal, Rye Meal, Pea Meal, and Bean Meal, the duty shall be for every cwt.

O 4½

THE SUGAR DUTIES BILL.

THE Act of Parliament passed 1846, for the regulation of the Sugar Duties, provides for a gradual diminution of these Duties. The amount is to be levied upon the following scale:—

1. On Sugar, or Molasses, the growtb and produce of any British Possession in America, or of any British Possession within the limits of the East India Company's Charter, into which the importation of Foreign Sugar is prohibited, and imported from thence, from and after the passing of this Act:

Candy, Brown or White, Double Refined Sugar, or Sugar equal in quality to Douhle Refined, for every cwt. Other Refined Sugar, or Sugar rendered by any process equal in 1 1 0 white Clayed Sugar, or Sugar rendered by any process equal in quality thereto, for every cwt.

White Clayed Sugar, or Sugar rendered by any process equal in quality to White Clayed, not heing refined, for every cwt.

Brown Sugar, being Muscovado or Clayed, or any other Sugar not heing equal in quality to White Clayed, for every cwt.

Molasses, for every cwt. 0.18 8 .. 0 14

2. On Sugar the growth and produce of any other British Possession within the

limits of the East India C	on	ipar	y's	C	bar	ter:	:									
	From and after the		1847, inclusive.	From and after 5th	7, to	sive.	From and after 5th	y, 184	sive,	Duesn and aftern Lab	187	o o	From and after 5th	188	sive.	From and after 5th Jury, 1851.
Candy, Brown or Wbite, Double Refined Sugar, or Sugar equal in qua- lity to Double Refined, for every cwt	1	s. 6	d.	1	5	d. 6	1	4	4 8	1	0	3	0	s. 2	d. 0	
every cwt	1	0	5		19			18			18	1		17	2	
every cwt Molasses, for every cwt.	0	17	6	0	17	0	0	16	3	0	15 5	6 9	0	14	9 6	1
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3. On Sugar, the growth and produce of any Foreign country, and which shall be imported into the United Kingdom, either from the country of its growth or from some British Possession, having first been imported into such British Pos-session from the country of its growth:

session from the country of its growth:																
	From and after the	passing of this	1847, inclusive.	and after	July, 1847, to 5th July, 1848, inclu-	sive.	From and after 5th	July, 1848, to 5th July, 1849, inclu-	sive.	From and after 5th		ಲೆ	From and sfter 5th	7, 1850, to		From and after 5th July 1851.
Candy, Brown or Wbite, Double Refined Sugar, or Sugar equal in qua- lity to Double Refined, for every cwt. Other Refined Sugar, or Sugar rendered by any process equal in quali- ty thereto, for every	1	a	d.		s. 10	d. 0	£	s. 7	d. 9	1	5	d. 6	£	s. 3	d. 3	The same duties as on Candy, Sugar, and Molasses, the produce of British Colonies.
cwt. White Clayed Sugar, or Sugar rendered by any process equal in quali- ty to White Clayed, not being Refined, for every cwt. Brown Sugar, being Mus- covado, or Clayed, or any other Sugar, not	1	4	6	1	3	4	1	1	7	0	19	10	0	0 i8	1	
being equal in quality to White Clayed, for every ewt Molasses, for every cwt.	10	17	0 10	1 0	0	0	0	18	6 11	0	17 6	0 4	0	15 5	6	

4. That the Bounties or Drawhacks following be paid and allowed upon the exportation of certain descriptions of Refined Sugar from the United Kingdom (that is to say).

Upon Double Refined Sngar, or Sugar equal in quality to Donble Re-stove, and being of an uniform whiteness throughout, or such Sugar pounded, crusbed, or broken, for every cwt. 0 17 Upon Bastard or Refined Sugar, hroken in pieces, or heing ground, or powdered Sugar pounded, or crusbed or broken, for every cwt. . . . 0 14

ACTS FOR THE SOCIAL IMPROVEMENT AND COMFORT OF THE PEOPLE.

It was a gratifying feature of the last session of Parliament, tbat, altbough engaged with questions of the utmost importance, commercial and political, it yet found time to frame and carry measures calculated to augment the comforts of the people, and to improve their health and physical condition generally.

One measure eminently deserving this character was the "Act to Encourage the Establishment of Puhlic Baths and Wash-houses." It is a fact beyond dispute that bathing has not only a beneficial effect upon the body, by promoting circulation, and facilitating the healthy action of the functions, but it also strengthens the mental faculties.

According to this Act the Council of any Municipal Borough in England, According to this Act the Council of any anincipal Dovogai in England, Wales, or Ireland; and also the Vestry in any parish in England or Wales, not included in a Minicipal Borongb, may carry the plan into effect at the expense of the rates. The acquisition of lands is rendered easy by the facilities afforder; and the Public Works Loan Commissioners will grant loans, to be repaid by twenty yearly instalments.

It is enacted that, when a parish agrees on the adoption of these plans, there must be obtained the approval of the Home Secretary, who is also to approve the hy-laws; and before any public lands are appropriated, or any loans obtained, the consent of the Treasury must be procured. With these exceptions, the local authorities are left entirely without control: on them the duty devolves of considering the views laid down by the Legislature, so as to carry them out in the most laiding and elegantareasy manner. most judicious and advantageous manner.

most judicious and advantageous manner.

This bill also empowers any Town Council, or other similar body, having jurisdiction in a corporate town, Drainage Commissioners, or Poor-law Guardians, on receipt of two medical men's certificate, vouching the existence of any public nuisance, to lodge a complaint with two Justices of the Peace. The Justices, on heing satisfied of the validity of such complaint, are required to make an order for the cleansing, whitewashing, or purifying, of any dwelling-house, or other huilding, or for the removal of the nuisance complained of in the certificate. If this order is disobeyed, the complaining parties are to have the power of entering upon the premises, and of themselves carrying these remedial measures into effect. The expenses so incurred may be recovered summarily from the owners of the property in question. of the property in question.

The President of the Council or any three members of that Board (of whom the Lord President or one of the Secretarics of State is to be one) are empowered to issue orders at any time to prevent the spreading of contagious or epidemic diseases in England.

All penalties leviable under this Act are to be applied towards the relief of the poor. All orders made by the Privy Council are periodically to be laid hefore Parliament. Provision is made for the payment out of the poor-rates of suce expenses as are not defrayed by the owners of the property complained against.

RAILWAY GAUGES.

THE Act for Regulating the Gauge of Railways, which passed last Session, after stating the expediency of defining that Gauge, declares that bereafter it will not be lawful, except in cases mentioned, to construct any railway for the conveyance of passengers on any guage other than four feet eight inches and half an inch in Great Britain, and five feet three inches in Ireland. The exceptions are set forth, and on certain railways the broad gauge is to be used. By the 4th provision it is declared that after the passing of the act the gauge of any railway used for the conveyance of passengers is not to be altered. Railways constructed contrary to this act may he ahated. There is a provision for the recovery of penalties. for the recovery of penalties.

THE ACT FOR THE DISSOLUTION OF RAILWAY COMPANIES.

THE Act 9 and 10 of Victoria, cap. 28, to facilitate the dissolution of certain Railway Companies, provides, by the 1st Section, that persons who shall have entered into a contract for the formation of a Company for making a Railway, &c., may dissolve the same under certain conditions therein named.

In the 2nd Section, it is enacted that the Committee, &c., may call meetings of

In the 2nd Section, it is enacted to at the Committee, &c., may can meetings of shareholders to consider the propriety of a dissolution.

Section 3 provides that the shareholders may require the Committee to call a meeting, and in default may call it themselves.

Sections up to 14 relate chiefly to the mode of taking the votes.

The 15th Section is the most important of the Act. It is as follows:—"And be it enacted, that to constitute a meeting under the provisions of this Act for the purpose of deciding on a discolution or harkwards. be it enacted, that to constitute a meeting under the provisions of this Act for the purpose of deciding on a dissolution, or bankruptcy, persons representing at least one third part of the shares in the undertaking actually issued or given, either as shares, scrip, or receipts, must be present and vote; and that for the purpose of effecting a dissolution, and as to Baukruptcy, there must be either a majority of the votes of the whole scrip of the Company issued as aforesaid, or at least three-fifths of the votes of persons present and voting, either as shareholders or proxies, in favour of the motion for dissolution, and for the bankruptcy, if so resolved on."

By Section 18, it is enacted that no votes shall be allowed except for scrip, &c., actually issued or given before 31st March, 1846.

According to Section 26, if the proposal of dissolution be rejected, no new meeting can be called for aix months to consider the question.

Section 27, provides that any three of the Committee, or any creditor or cre-

According to Section 26, if the proposal of dissolution be rejected, no new meeting can be called for aix months to consider the question.

Section 27, provides that any tbree of the Committee, or any creditor or creditors, may petition for a flat in bankruptcy.

It is also provided, that, after the dissolution of any Company, no action, &c., can be brought by any attorney or solicitor, until one month after a bill of fees sball have been delivered.

Another important clause enables defendants to recever contributions from their Committeemen:—"And be it enacted, that where the dissolution of a Company shall have been resolved under this Act, if judgment shall have been recovered, or shall afterwards be recovered in any action against any member of the Committee, for any debt due from such Company, or from such Committee, in respect of the undertaking, the member against whom such Judgment shall have been recovered shall he entitled at law to a contribution from each of the other members of such Committee towards the payment of the moneys recovered ysuch judgment, and of all costs and expenses in relation thereto, of such a share of the whole amount of such moneys, costs, and expenses, as would have heen borne by such respective members upon an equal contribution by all the members of such Committee, and may recover the contributions to which he may he so entitled, or any of them, hy action or actions of delt, or on the case against all or any of such other members of such Committee, but so that no such member shall he liable in any such action as aforesaid for more than the share to which he shall respectively be liable to contribute under this provision."

THE POOR REMOVAL BILL.

This bill, which excited so much discussion in the House of Commons, consists but of 10 clauses. Clause 1 enacts that no person shall be removed from any parish in which he or she shall have resided for five years. Clause 2, that no widow shall be liable to be removed for twelve months after the death of her husband. Clause 3, that no child, whether legitimate or illegitimate, under the age of 16 years, shall be liable to be removed, except with its father or mother. Clause 4 and 5, that sick persons shall not be liable to be removed, except the Justices are satisfied that the sickness or accident will produce permanent disability, but that no settlement is to be gained by their non-removal. Clause imposes a penalty not exceeding £5, nor less than £2, for unlawfully procuring the removal of poor persons to other parishes. Clause 7 provides for the delivery of paupers under a warrant of removal. Clause 8 constitutes this Act part of the Act of 4 and 5 William IV. for the Amendment and better Administration of the Poor Laws; and clauses 9 and 10 limit this Act to England. This bill, which excited so much discussion in the House of Commons, consists

APPLICATION FOR LOCAL ACTS.

APPLICATION FOR LOCAL ACTS.

It is provided by the New Act of Parliament "for making preliminary Inquiries in certain Cases of Applications for Local Acts," that in any case where it is intended to make an application to Parliament for an act for the establishment of any waterworks, or for draining, paving, cleansing, lighting, or otherwise improving any town, district, or place; or for making, maintaining, or altering any hurial-ground or cemetery; or for continuing, altering, or enlarging any of the powers or provisiona contained in any act relating to such purposes, a notice in writing of such intention to apply to Parliament in the next ensuing session for an act for any of the above objects, shall, on or before the last day of November,—or, in case such day shall fall on a Sunday, then on the next day preceding in each year,—be delivered at the office of the Woods and Forests, with all information on the subject. The Commissioners of the Woods and Forests, with all information on the subject. The Commissioners of the Woods and Forests, with all information may require the attendance of witnesses. The expenses are to be paid by the promoters. It is expected that this measure, founded on the report of a Select Committee on Private Bills, will greatly facilitate local acts, and save considerable expense. and save considerable expense.

THE SMALL DEBTS ACT.

This act may be considered as an experiment for the purpose of effecting the important object of recovering debts at a small expense. The monstrous charges

This act may be considered as an experiment for the purpose of effecting the important object of recovering debts at a small expense. The monstrous charges for recovering debts under the old system, were disgraceful to a country like England, which boasts of its justice and equity.

This act contains 143 provisions, and four schedules.

It would seem that the new law will not affect the Palace Court, which possesses a jurisdiction to £20, as it is not considered one "of her Majesty's Superior Courts of Record;" but, with regard to the auperior courts, persons bringing actions after the passing of the Act (28th August), "for which a plaint might have been entered in any court bolden under this Act," are to be liable, under certain circumstances, to the payment of costs.

The primary object of the Act was to prevent the denial of justice, which existed in respect to claims under £20, as, in innumerable cases, the costs exceeded the debt, and insolvency resulted; and in other cases debtors e-caped with impunity, because of the expense of the remedy. By the 58th section, the jurisdiction of the County Court is to extend to "debt or damage" of not more than £20, whether on balance or otherwise, with the exception, among other things, of actions for malicious prosecutions, libel, slander, seduction, or breach of promise of marriage; but false imprisonment and assault cases are not excluded; and, by another provision, the parties to the action, their wives, and all other persons, may be examined.

By the 78th section, all foums of procedure to be used in the County Courts under the Act, with the general rules for regulating the practice and proceedings of the same, are to be framed by the Judges of the superior courts of Common Law at Westminster.

It is provided by the 129th clause, that if any action shall be commenced in any of the superior Courts of Record (other than those specified) for any cause for which a plaint might have been entered in any court holden under the Act, and a verdict be found for the plaintif

in such superior court."

An important part of the Act is that relating to execution. Our readers are, perhaps, aware that, under the Common Law, as administered by the Courts at Westminster, a party who had obtained a judgment was entitled to take out execution immediately for the whole amount of debt and costs. It was optional with him to sue out a writ against the goods, or against the body, of his debtor; and, if he failed h. pursuing the goods, he might afterwards avail himself of his remedy against the parson.

and, if he failed i. pursuing the goods, he might afterwards avail himself of his remedy against the person.

Such right to proceed at once to execution was not controlled hy any discretionary power of the Court; tbough, in some cases, the Judge who tried a cause at Nisi Prius was enabled to give speedy execution to a successful plaintiff—that is, to allow him to take it immediately after the verdict.

The Small Debts Act gives a discretionary power to the Judge, which had been previously conferred upon various Commissioners of Courts of Request, to order the sum recovered to be paid by instalments; and, in such case, execution is not to issue till after default in paying the first instalment, and then only by order of the Judge, for the whole or a part, as he may think proper. Whenever execution the Judge, for the whole or a part, as be may think proper. Whenever execution is awarded by the Judge, he is empowered to prescribe the times and manner in which the levy is to be made. Thus, in effect, the whole control of this process is placed in his hands.

But, it is in execution against the body, that the most important charge is introduced.

introduced.

In 1837, arrest on mesne process was abolished, a power heing reserved to the Judge to issue a capias, on an affidavit by the plaintiff of his helief that the debtor was about to leave the kingdom. The next step was the abolition of arrest on final process in cases exceeding £20, which was effected by the 7 and 8 Victoria. A power of committal was conferred upon the Judge, in certain cases of fraud; though, owing to the clumsy manner in which the act was drawn, it was found impossible for any Judge to exercise such power. In 1845, it was found that something must be done for the relief of small creditors, who suffered greatly under this statute, and, accordingly, the 8 and 9 Victoria was passed, entitled, "An Act for the Better Securing the Payment of Small Debts:" whereby the creditor was enabled to apply to the Court of Bankruptcy to obtain a discovery of the property of his debtor, and punishment in case of fraud. The statute afforded a partial remedy for the evil; yet it seemed a strange and circuitous way

of proceeding, to drive a plaintiff to the Court of Bankruptcy, when the proper remedy could be more promptly and efficaciously administered by the Court in which his judgment was obtained.

The Small Debts Act makes a more ample provision for the accurity of the creditor. It enacts, "that any person who has obtained a judgment may summon his debtor before the County Court, where he may be examined touching his estate and effects, the circumstances under which he contracted the debt, the expectation which he had of paying it, and other matters in relation thereto; and, if it shall appear to the Judge that he has obtained credit on false pretences, or fraudulently, or contracted his debt without reasonable expectation of paying it, or in certain other cases of fraud or improper conduct, the Judge shall have power to commit him to prison for any period not exceeding forty days." This will be found to be a most important provision; and it will, no doubt, have a salutary effect in the transactions of small traders.

A most important feature of the Act is the very moderate scale of fees authorised in all proceedings under it. The Act, indeed, appears to be a most equitable one, as it will be seen that there is a different scale of charges for debts amounting to £1, £2, £5, £10, and upwards.

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_	JUDGE'S FEES.	s. d.	s d.	s. d.	s. d.	s. d.	a. d.
E	very summons	0 3	0 6	1 0	20	3 0	3 0
1 5	very hearing without a jury very hearing or trial with a jury	$\begin{array}{ccc} 1 & 0 \\ 2 & 0 \end{array}$	1 6 3 0	2 6 5 0	7 6 10 0	10 0 15 0	15 0 20 0
E	very order or judgment, or application for	2 0	0 0	3 0	10 0	10.0	20 0
	au order	0 3	0 6	1 0	2 0	3 0	3 0
	CLERK'S FEES.				3		
E	ntering every plaint and issuing the sum-		- 3				
	mons thereon	0 3	0.6	1 0	2 0	3 0	3 6
E	very subpœna, when required	0 3	0 6	0 9	1 0	1 6	16
E	very hearing, trial, or nonsuit without a	0.4	0.6				
A	djournment of any cause	0 4	0 4	1 0 0 6	1 6	2 0 2 0	3 6
E	ntering and giving notice of special defence	0 3	0 6	1 0	1 6	2 0	2 0
S	wearing every witness for plaintiff or de-						
E	fendant	0 2	0 2	0 3	0 4	- 0 6	1 0
E	ntering and drawing up every judgment and order, and copy thereof	0 3	0.6	1 0	16	2 6	3 0
P	and order, and copy thereof ayment of money in or out of Court, whether or not hy instalmenta at different	0.0	• •	1 0	1	2 0	3 0
	ther or not hy instalmenta at different				ì		
	times, including notice thereof, and taking receipt	0 2	0 4	0.6		i	1
P	aying money into Court, and entering same	0 2	0 4	0.0		-	-
	in books, and notice thereof, or of sum in						
	full satisfaction having been paid into						
P	Court, each instalment or payment ayment of money out of Court, and taking	_	-	_	0 6	0 8	0 1
1	receipt, exclusive of stamp	_	_	_	0 9	1 0	1 6
	very search in the books	0 2	0 2	0 4	0 6	10	1 0
18	suing every warrant, attachment, or exe-	0.6	0.6	1.0	16	2 6	3 0
S	upersedeas of execution, or certificate of	0.0	00	10	1 0	2 0	30
	payment, or withdrawal of cause	03	0 6	0 6	10	16	2 0
W	arrant of commitment for an insult or mis- behaviour in Court	10	10	1 0	10	10	1 0
E	ntering and giving notice of jury being re-	1 0	1 0	10	1.0	1 0	10
	quired	0 6	0 9	1 0	16	20	2 6
	suing summons for jury	06	0 9	1 0	1 6	2 0	2 6
E	wearing jury very hearing, trial, or nonsnit with a jury	0 6	0 8	0 10 2 0	3 0	16	1 6 7 6
Т	very hearing, trial, or nonsnit with a jury aking recognisance or security for costs		_		2 0	2 6	3 0
I	equiring into sufficiency of sureties pro-				ł		
	equiring into sufficiency of sureties pro- posed, and taking bond on removal of plaint, or grant of new trial, or other oc-						
	casion	2 6	2 6	2 6	2 6	2 6	2 6
T	aking costs	-	-	_	īŏ	2 0	3 0
	HIGH BAILIFF'S FEES.						
C	alling every cause	0 2	0 2	0 4	0 6	10	1 6
A	ffidavit of service of summons ont of the				"	•	- 0
0	jurisdiction	0 2	0 3	0 6	10	16	2 0
13	erving every aummons, order, or subpæna within one mile of Court-bouse	0 3	0 4	0 6	0 10	10	1 6
If	above one mile, then extra for every other						. 0
	mile	0 2	0 2	0 3	0 4	0 4	-
E	xecution of every warrant, precept, or at- tachment against the goods or body, within						
	one mile of the Court-house	16	16	3 6	4 0	5 0	7 0
If	above one mile, then extra for every other		1				U. II
1	two officers he necessary in the judgment	0 3	0 3	0 4	0 6	0 6	0 6
1	of the Court, then extra, within one mile						
	of the Court-house	1 0	1 6	2 0	2 0	2 6	3 0
If	above one mile, then extra for every other mile	0.2	0.3	0.4	0.6	0.0	0.0
K	eeping possession of goods till sale, per day,	0 3	0 3	0 4	0 6	0 6	0 6
	not exceeding five days	10	1 6	2 0	20.	2 6	3 0
C	arrying every delinquent to prison, in- cluding all expenses and assistants, per						
	cluding all expenses and assistants, per mile	1.0	10	1.0	1.0	1.0	1 0
Is	suing warrant to clerk of another Court	10	1 6	20	2 6	3 0	3 6
-	N.BWhere the plaint of recovers less t	han h	is clai	m. 80	as to	reduc	_
00	ale of costs the plaintiff to now the different	2700	The	avorol	food	nurro hi	4 00

N.b.—Writer the plaintiff to pay the difference. The several fees payable on proceedings in replevin to be regulated on the same scale, by the amount distrained for; and on proceedings for the recovery of tenements, by the yearly rent or value of the tenement sought to be recovered.

NEW DOMESTIC HINTS.

FROM "SOYER'S GASTRONOMIC REGENERATOR."

DIRECTIONS FOR LARDING.

DIRECTIONS FOR LARDING.

Choose the firmest bacon yon can obtain, quite fat, and not at all red, or it would break and canse a deal of trouble. To cut it, take off the piece of lean at the bottom, lay it upon a board with the rind upwards, and beat gently with a cutlet bat, trim the sides, and cut it into bands the breadth that you may require your lardons in length; if for a fillet of beef, two inches; for fricandeau, trnkey, poularde, fowl, pheasant, or sweetbread, an inch and a half; and for lamb'a sweetbreads much smaller. Take one of the bands, place it before yon with the rind downwards, and with a sharp knife cut it in slices, (but not separating it from the rind), of the thickness you require for the article you are about to lard, then place your band at the top, press lightly, and draw your knife straight along as if cutting the bacon in slices, so as to form the lardons square at each end, commencing cutting from the heel of the knife, and finishing at the point.

POULTRY.

Never use turkeys before Michaelmas, and not after the latter end of March. Ditto turkey poults before the end of June, and not after September. Capons, poulards, pullets, and fowls, use all the year round. Begin about March with the spring chickens, till the beginning of July.

Geese are in almost all the year round.

Goslings, or green geese, commence early in the spring, and are called so till the end of September; thus there is hardly any difference between them and the Micbaelmas geese.

Ducks and ducklings the same.

Rabbits and pigeons may be used all the year round; but it is only in the early part of the spring that I use tame rabbits.

Guiuea-fowls are used when pheasants go out, which is about the latter end of the same rabbits. Jannsry, and are need till the end of May. Their eggs are very good, me cate than the common ones.

Never use grouse before the 14th Aug., and after the 22nd December. Their eggs are very good, more deli-

Black cocks and grey hens about the same time as grouse, but they are more

uncertain Ptarmigans are sent from Norway about the middle of January, and continue

Ptarmigans are sent from Norway abont the middle of Jannary, and continue till March, but that depends much upon the weather.

Though the shooting season for partridges is the 1st of September, and lasts till the end of January, I never cook one before the 3rd, except being desired to do so, but I often keep some for three weeks after the shooting season Is over.

The same with pheasants, which begins from the 1st of October till the end of January. By hanging them by the necks and putting a piece of garlie in the beaks and a little cayenne, I one cold winter kept one six weeks after the shooting time had expired, which I afterwards presented to a party of real gourmsts, who said it was the best they bad partaken of during the season.

Use wild ducks, widgeons, teal, pintails, larks, golden plovers, snipes, woodcocks, from the commencement of November till the latter part of March, after which the flesh becomes rank and unfit for the table.

Young pea-fowls are very good, and make a noble roast, and are in season from

Young pea-fowls are very good, and make a noble roast, and are in season from Janusry till Jnnc, but they are very uncertain.

Plovers' eggs, my favourite, an unparalleled delicacy, come about the middle of March, and are not considered good after the latter end of May; but when I can get them fresh in June, I do not discontinue their use, because they are, in my estimation, wortby of the patronage of the greatest gourmet.

Fig. 1. For the last few years there has been quite an alteration in the description of the seasons for these golden and silvery inbabitants of the deep.

Except the cod-fish, which come in September, and by strictness of rule must disappear in March, the season for all other sea-fish becomes a puzzle; but the method I follow during the season is as follows:

Crimped Gloucester is plentiful in June and part of July, but it may be procured almost all the year round.

Common salmon from March to July. Salmon peale from June to July.

Spey trout from May to July. Sturgeon, though not thought much of, is very good in June.

Turbot are in season all the year round.

John Dories depend entirely upon chance, but may be procured all the year round for the epicure, May excepted.

The original season of Yarmouth mackerels is from the 12th of May till the end of July; now we have Christmas mackerel; then the west of England mackerel, which are good at the beginning of April.

Haddock and whiting all the year round. Skate all the winter.

Smelts from the Medway are the best, and are winter fish; the Yarmouth and Carlisle are good, but rather large; the Dutch are also very large, which often lose in the estimation of the epicure.
Brill is like turbot as to season.

Brin is like turous as to season.

Slips are similar to soles, good all the year round,
Gurnets are rather a spring fish.
Flounders and diamond plaice are in full season from June to July,
Red mullets vary very much now, but the beginning of the season was formerly
the 12th of May; we had none to bis year, except at a very extravagant price.
Always use them when they are to be obtained.

Fresh berrings are in season from November to January. River eels all the year round.
Lob-ters in the spring and part of the summer.
Prawns ditto.

Crabs are best in May.

Oysters begin in August, but are not very good till September.

Barrelled oysters begin on the 15th of September, and last till the end of Feb-

Barrelled cod, Lent fisb, are best in winter or about March Sprats come in about the 8th of November.

HOW EVERTHING SHOULD BE IN COOKING.
All clear soup must not be too strong of meat, and must be of a light brown, sberry, or straw colour.

All white or brown thick soups must be rather thinnish, lightly adhering to

the back of the spoon.
All purees must adhere little more to the back of the spoon.

Any Italian paste must be very clear, rather strong, and the colour of pale

erry.

All kinds of fish sauce should be thicker for boiled fish than for broiled or fried. Brown sauce should be a little thinnish and the colour of a horse-chesnut. White sauce should be of the colour of ivory and thicker than brown sauce. Cream or Dutch sauce, must be rather thickish, and cannot be too white. Demi-glace requires to be rather thin, but yet sufficiently reduced to envelop

any pieces of meat, game, poultry, &c., with which it is served.

Every description of fish should be well done, but not over-boiled, broiled, stewed, or fried. Beef and mutton must be underdone, even for joints, removes, and entrées.

Beef and mutton must be underdone, even for joints, removes, and entrées. Lamb requires to be more done.

Veal and pork must be well done.

Venison must be underdone, red in the middle, and full of gravy, but not raw. Poultry, either broiled, stewed, boiled, or roasted, must be done thoroughly, not cutting in the least red, but must still be full of gravy.

Pheasants and patridges must be well done through, yet full of gravy. Grouse, black cocks, grey hens, and ptarmigans, must cut reddish, with plenty of gravy, but not too much underdone.

All kinds of water-fowl must be very much underdone, so that the blood and gravy follow the knife in carving.

Plovers must be rather underdone, but done through.

Rabbits and pigeons must be well done.

Second-course savoury dishes must be rather highly seasoned, but with a little moderation.

Pastry sbould, when baked, be clear, light and transparent, and of a beautiful straw colour; the body of a croustade the same.

Large pies, timbales, and casseroles of rice must be of a yellowish brown colour. Jellies require to be very white and transparent for fruits, and not too firm, but better so than too delicate.

Orange jellies should be of a deep orange celour, and all fruit jellies as near as resulted the colour of the fruit.

possible to the colour of the fruit.

Creams should be very light and delicate, but frult creams must be kept of the

Creams should be very light and delicate, but fruit creams must be kept of the colour of the fruits they are made of.

For all the demi-glace removes the ice mmst be firm, but not the least hard. All kinds of souffie or fondu must be well done through, or they would be very indigestible, clog the delicate palate, and prevent the degustation of the generous claret which flows so freely after dinner on the table of the real epicure.

I recommend sngar in almost all savoury dishes, as it greatly facilitates digestion and invigorates the palate, but always increase or diminish the quantity according to the taste of your employer.

I often introduce onions, eschalots, or even a little garlic in some of my most delicate dishes, but so well blended with other flavours that I never have a single objection even by those who have a great dislike to it.

Horseradish and herbs of every describition may always be used with discretion

Horseradish and herbs of every description may always be used with discretion

to great advantage.

Contrary to the expressed opinion of every other previous publication, I say that too much seasoning is preferable to too little, while you fear over-seasoning you produce no flavour at all; by allowing each guest to season for himself, your sauce attains a diversity of flavours. The cook must season for the guest, not the guest for the cook.

not the guest for the cook.

I have always found great advantage in dressing the greatest part of my entrees on a thin roll of mashed potatoes; this has never been found objectionable, as it is so thin tbat it is imperceptible when covered with the sances, and serves to prevent any entrees dressed in crown from being upset, before going on table, by the carelessness of the servant. The mashed potatoes which are to be need for disbing up are simply prepared as follows:—Plain, boll, or steam six or eight large mealy potatoes; when well done peel and put them into a stewpan with two ounces of butter, and a little salt; then with the prong of a fork whisk them till quite in purfe; then add two tablespoonsful of milk, work up with a small wooden spoon till forming a paste; then lay a small quantity on a clean cloth, roll It to the circumference of a fourpenny or sixpenny piece, and form a round with it in your dish according to the size of the entrée; alter the proportion according to the size of the flanc or remove.

NEW AND ECONOMICAL LOBSTER SAUCE.

the size of the flanc or remove.

NEW AND ECONOMICAL LOBSTER SATCE.

Break up a fresh lobster, use the solid flesh for salad or any other purpose, pound the soft part and shell together (in a mortar) very fine, place the whole in a stewpan, cover with a pint of boiling water, place over the fire, and let simmer ten minutes, when pass the liquor through a hair sieve into a basin, and use for making melted butter as in the last, to which add a little cayenne pepper and a piece of anchovy butter the size of a walnut; if any red spawn in the lobster, pound and mix it with a small piece of fresh butter, and add to the sauce with a little lemon-juice when upon the point of serving; an anchovy pounded with the shells of the lobster would be an improvement, some of the flesh may be served in the sauce. in the sauce.

SHRIMP SAUCE.

Is very excellent made by pounding half a pint of shrimps with their skins, boiling ten minutes in three parts of a pint of water, finishing as directed for lobster sauce, and always serving very hot.

boiling ten minutes in three parts of a pint of water, finishing as directed for lobster sauce, and always serving very hot.

Anchovy sauce.

Is made by adding a sponful of Harvey sauce and two of essence of anchovy, with a little cayenne, to half a pint of melted butter; shrimps, prawns, or even blanched oysters may be served in it.

Cut and chop a knuckle of veal, weighing about four pounds, into large dice; butter the bottom of a large stewpan with a quarter of a pound of butter, add two onions, a small carrot, a turnip, btree cloves, half a blade of mace, a bayleaf, and a sprig of thyme, and six of parsley tied in a bunch; add a gill of water, place over a sharp fire, stirring round occasionally, until the bottom of the stewpan is covered with whitish glaze, when fill up with three quarts of water, add a good teaspoonful of salt, and let simmer at the colner of the fire an honr and a half, keeping well skimmed, when pass it through a hair sieve into a basin; in another stewpan put a quarter of a pound of butter, with which mix six ounces of flour, stirring over the fire about three minntes, take off, keep stirring intil partly cold, when add the stock all at once, continually stirring and boiling for a quarter of an hour; add half a pint of boiling milk, stir a few minutes longer, add a little chopped mushroons if handy, pass through a hair sieve into a basin, until required for nee, stirring it round occasionally until cold; the above being a simplified white sauce.

For a brown sauce use the same proportion as for the wbite, but having beef instead of veal for the stock, which must be made brown by placing four large onions cut in halves at the bottom of the stewpan, which must be well buttered, placing the meat over, standing upon the fire, and drawing down to a brown glaze before filling up, the thickening must also be made brown by placing four large onlines cut in halves at the bottom of the stewpan, which must be well buttered, placing the meat over, standing upon the fire, and drawing down to a brow

pass and use for a brown sauce.

pass and use for a drown saide.

To MARE A COLOURING OR BROWNING FROM SUGAR.

Put two ounces of whitepowdered sugar into a middling-sized stewpan, which place over a slow fire, when beginning to melt stir round with a wooden spoon until getting quite black, when set it in a moderate oven upon a trivet about twenty minutes, pour a pint of cold water over, let it dissolve, then cork it up in a bottle for use.

THE DEADLY NIGHTSHADE.

THE Deadly Nightshade (Atropa Belladonna) is indigenous to Great Britain, and usually met with in eheltered situations, hedges and wasteground, on a calcareous soil. The plant dies down to the ground every winter, shooting forth early in the spring, growing rapidly, and with great luxuriance; stems branching, and elightly downy, with large healthy-looking leaves, mostly two together of unequal size, ovate and acute, very different in appearance from all other kinds Nightshade. The flowers which appear in June are imperfectly axillary, solitary, etalked, drooping, dark full purple in the border, paler downwards, about an Inch long, and have no scent. The berries are of a rich purplish black, sweetish, about the size of a small cherry; are ripe in August, and of a deadly narcotic quality.



THE DEADLY NIGHT-SHADE .- (Atropa Belladonna.)

Atropus was the name of one of the Fates in the Heathen Mythology, and as her duty was especially to cut short the thread of human life, this poisonous plant is very appropriately named after her; but why belladonna, which signifies a beautiful lady, was added, is not known.

The effect that is usually produced upon any one who has eaten of the herrites is to distort the named of the area.

The effect that is usually produced upon any one who has eaten of the herries is to dilate the pupil of the eye, in a most extraordinary manner; obscurity of wison, giddiness, delirium, and death, soon follow. It has been supposed that it was the juice of this plant which produced such remarkable and fatal effects on the Roman soldiers, during their retreat from the Parthians. Buchanan relates that the Scots mixed the juice with bread and drink, which, by their truce, they were to supply the Danes, which so intoxicated them, that the Scots killed the greatest part of Sweno's army while asleep. Shakspear 'is supposed to allude to the plant under the name of the insane root, in Macbeth. And we have had many recent illustrations of its fatal effects upon persons who have ignorantly eaten of the berries. In August, 1844, several persons became alarmingly ill, and were with difficulty restored, one dying. In August of 1846, no less than three persons but their lives from eating berries, purchased of a man in the streets; the man who sold them was taken up and tried for his life; hut, by the advice of his counsel, he pleaded guilty to the minor offence of manslaughter, and received eix months imprisonment. months imprisonment.

The remedy in a case of poisoning, is to empty the stomach as quickly as possible The remedy in a case of poisoning, is we empty one stomach as quickly as possible. Domestic emetics are always at hand, in mustard and calt. A dessert spoonful of flour of mustard, or a table spoonful of salt, may be taken, stirred up in a tumbler full of warm water, tickling the throat with a feather dipped in oil; but the stomach-pump should alwaye be preferred when it can be obtained. After which, drinks of vinegar and water, or lemon juice in green tea, chould be given every ten minutes.

given every ten minutes.

Onr engraving, (Fig. 1) represents a flower cut open, showing the position of the stamens; fig 2, the calyx with the pistil; and fig. 3, a berry cut in half, to show its two cells, in each of which are several seeds.

To passeave cut flowers.

To passeave cut flowers.

The most simple rules are, not to put too many flowers in a glass, to change the water every morning, and to remove every decayed leaf as soon as it appears, cutting off the ends of the stems occasionally, as soon as they show any symptoms of decay. A more efficacious way, however, is to put nitrate of soda in the water; put about as much as can easily he taken up between the forefinger and thumb, into the glass every time the water is changed, will preserve cut flowers in all their beauty for above a fortnight. Nitrate of potash, (that is common saltpetre,) in powder, has nearly the same effect, but is not quite so efficacious.—Mrs. Loudon.

To hasten the blowing of flowers.

The following liquid has been used with great success; this is, indeed, what is usually sold under the name of "liquid grano:"—Sulphate or nitrate of ammonia, four ounces; nitrate of potash, two ounces; sugar, one ounce; hot water, one pint; dissolve, and keep it in a well-corked bottle. For use—Put eight or ten drops of this liquid into the water of a hyacinth glass or jar, for bulbous-rooted plants, changing the water every twelve or fourteen days. For flowering plants in pots, a few drops must be added to the water given to them: rain water is preferable for the purpose. water is preferable for the purpose.

water is preferable for the purpose.

SHERRY COBBLER.
(Canadian Receipt)

Take a lump of ice; flx it at the edge of a board; rasp it with a tool made like a drawing-knife or carpenter's plane, set face npwards. Collect the fine raspings —the fine raspings, mind—in a capacious tumbler; pour thereon two glasses of good sherry, and a good spoonful of powdered white sugar, with a few small bits, not slices, of lemon, ahout as big as a gooseberry. Stir with a wooden macerator. Drink through a tuhe of macaroni or vermicelli.

Drink through a tuhe of macaroni or vermicelli.

This is often carried to a fearful extent: Mr. Accum says—"The hakers' flour is very often made of the worst kinds of damaged foreign wheat, and other cereal grains mixed with them in grinding the wheat into flour. In this capital no fewer than six distinct kinds of wheaten flour are brought into the market. They are called fine flour, seconds, middlings, fine middlings, coarse middlings, and twenty-penny flour. Common garden beans and peas are also frequently ground up among the London bread flour. Caution.—If you purchase bread from the bakers, by all means buy the best. When you make it yourself, however, various additions may be made of a wholesome kind, that will render it cheaper. Thus, mashed potatoes, ground bran, potato farina, and several other articles may be added at pleasure. Mixing the flour up with a decoction of bran, pumpkins, Iceland moss, and some other similar substances has been recommended; and it is said that flour so mixed, will yield one quarter more hread than when water alone is used, and that it will keep good for some time.

BUTTEL

an when water alone is used, and that the BUTTER.

Rancid butter is hutter in a state of decomposition, and capable of producing
Two cases of noisoning by bad butter are dedangerous symptoms when eaten Two cases of poisoning hy bad butter are detailed in the Paris "Journal of Chemistry and Medicine," 1842. Rancid butter may be restored by melting it in a water-bath, with some coarsely powdered animal charcoal (which has been thoroughly freed from dust hy sifting), and straining through clean flannel.

TO KEEP CHEESE.

When a whole cheese is cut, and the consumption small, it is generally found to become unpleasantly dry and to lose flavour before it is consumed. This is best prevented by cutting a sufficient quantity for a few days' consumption from the cheese, and to place the remaioder in a cool place, rather damp than dry, spreading a thin film of butter over the cut surface, and covering it with a cloth to keep off the dirt. This removes the objection existing in families against purchasing a whole cheese at a time. The common practice of buying cheese in small quantities should be avoided, as not only a higher price is paid for any given quality, but there is little likelihood of obtaining exactly the same flavour twice running, Should cheese become too dry to be agreeable, it may be used for stewing, or when grated cheese is wanted.

In the choice of every kind of fish, stiffness, hrightness of the eyss, and redness of the gills, may be regarded as invariable signs of freshnese. A peculiar elasticity will also be perceived in fish recently caught; little or no permanent impression being made by the ordinary pressure of the fingers, from the fiesh immediately rising when the pressure is withdrawn. Fresh fish also lie in a partly curled position, and never quite straight, as is the case when they have been kept for some time. Thickness and fleshiness are deemed marks of the gord condition of all fish.

Of all the various substances used as all reserved.

gond condition of all fish.

Of all the various substances used as aliments by man, fish are the most liable to run into a state of putrefaction, and should, therefore, be only eaten when perfectly fresh. Those that are whitest and most flaky when cooked, as whiting, cod, founders, soles, haddock, turbot, &c., are the most easily digestible; and those abounding with oily matter, as salmon, ells, herrings, &c., are most nutritious, though more likely to offend the stomach. Salt water fish has been said to be more wholesome than river fish, but without sufficient reason. Salted fish is very hard of digestion unless well cooked. Acid sauces and pickles are the proper additions to fish, from their power of retarding the progress of putrefaction, and of correctiog the tendency of large quantities of oil and hutter.

of correction the tendency of large quantities of oil and hutter.

In the preparation of pickles, it is highly necessary to avoid employing metallic vessels; as both vinegar and salt corrodes brass, copper, lead, &c., and thus become poisonous. When it is necessary to heat or boll vineger, it should be placed in a stone jar in a water hath, or on a stove. Glazed earthenware should be avoided either for making or keeping the picklee in, as the glazing usually contains lead. Pickles should he kept from the air as much as possible, and only touched with wooden spoons. They are also better preserved in small jars, or bottles, than large oues, as the more frequent opening of the latter exposes them too much. If a green colour he desired, it may be imparted by steep. poses them too much. If a green colour be desired, it may be imparted by steeping vine leaves, or the leaves of parsley, or spinach, in the vinegar: a tea-spoonful of olive oil is frequently added to each bottle to keep the pickles white.

TO PRESERVE CABRAGES.

TO PARSEAVE CARRAGES.

Cut them so that they may have two inches stem left helow the leaves; scoop out the pith as far down as a small knife will reach; then suspend them, by means of a cord, exactly perpendicular, but in an inverted position, and daily fill up the hollow part of the stem with clean water. It is stated, that hy this method, cabbages, cauliflowers, hrocoli, celery, &c., may be preserved for come time in a cool place; it affords an easy means of keeping a snpply of green vegetables during the winter.

DECANTERS.

There is often much difficulty experienced in cleaning decanters, especially after port wine has stood in them some time. The hest way is to wash them out with a little pearlash and warm water, adding 1 spoonful or two of fresh slaked lime, if necessary. To facilitate the action of the fluid against the sides of the glass, a few small cinders may be used. Another annoyance which frequently occurs, is that the stoppers of glass bottles and decanters hecome fixed in their places so firmly, that the exertion of sufficient force to remove them would endanger the vessele. In such cases, knocking the stopper gently with a piece of wood, first on one side, and then on the other, will generally loosen them. If this method does not succeed, a cloth wetted with hot water and applied to the neck, will generally expand the glass sufficiently to allow them to be easily withdrawn. CHINA

Is best cleaned, when very dirty, with finely powdered fuller's earth and warm water, afterwards rinsing it well in clean water. A little clean soft soap may be added to the water instead of fuller's earth. The same plan is recommended for

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delivered next day between 11 and 2, gratis.

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The Third Page of each Month is headed by a graceful Illustration of its Sports, Pastimes, and Pursuits; a recompanied by Notes upon its Feasts and Fasts, and brief Notless or the Featal Observances by which the several Holidays have heen transmitted through ages unto

our own time. Throughout the Illustrations, the Artist has associated the Ages of Man with the Natural Appearances of the Year in each Month; the epigraphs to each being quoted from a quaint old poem—"The Age and Life of Man; a Short Description of the Nature, Rise, and Fall, according to the Twelve Mooths of the Year."

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the Astronomical section, have heen made by Mrs. GLAISEER. The whole of the drawings in this and MISCELLANEOUS.

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PUBLISHED AT THE OFFICE OF THE ILLUSTRATED LONDON NEWS,
198, STRAND

INTRODUCTION.

The success which has attended the publication of the three preceding ILLUSTRATED LONDON ALMANACKS, has induced the Proprietors to spare no expense or trouble in the forming of this, the Fourth ILLUSTRATED LONDON ALMANACK.

This work has been written not only with the view of setting before the Public the Yearly Calendarial and Yearly Astronomical Phenomena, in the most popular and yet accurate form possible; but, also, with the view of the whole forming a connected series, dependant upon each other, but yet that each volume shall be complete in itself for the year of its publication. This will be found to be particularly the case in the Astronomical Department; for instance, from year to year, the path in the Heavens of the Planets may be traced, in the same manner as they may be traced from month to month in the same year's Almanacks. The work, therefore, differs in this respect from all other Almanacks, that, at the close of the year, it is not to be laid by as useless, but it will serve for a constant book of reference for the places and the appearances of the Planets, &c.

The CALENDARIAL AND ASTRONOMICAL DEPARTMENTS of this Almanack have been entirely under the superintendence of LAMES GLASSUM.

for the places and the appearances of the Planets, &c.

The CALENDARIAL AND ASTAONOMICAL DEPARTMENTS of this Almanack have been entirely under the superintendence of James Glaisher, Esq., F.R.A.S., and of the Royal Observatory, Greenwich, who has also furnished the following explanatory remarks relative to the contents of this Almanack.

CALENDARIAL PAGES.—Times of the Sun and Moon, and Planets Rising and Setting. In these calculations a correction of 34' for refraction has been taken into account for the Sun and the Planets, and an additional correction of 57' for parallax for the Moon; and the calculations are adopted for London. An auxiliary table was printed in the Almanack for 1847, page 54, to enable persons to deduce the time of Sun Rising or Setting at any place in the British Isles. The numbers in the same table are applicable to the times of rising in this Almanack, and to be used in the same way as is there explained.

The times of Moon Rising will be nearly the same at every place in the British Isles, when the Moon is on the Equator, as the times given in the Almanack. At times, when the Moon is situated North of the Equator, she will rise earlier, and set later at all places North of London; and she rises earlier and sets later at all places Morth of London, and she rises earlier and sets later at all places North of London, than the times at London. The times of the Moon's Southing, or being on the Meridian, bave been calculated for Londou, and they are true for all places having the same longitude; or for all places situated due North or South of London. To all places East of this N. and S. line, the times are somewhat later than those given in the Almanack.

Diraction of Moonlight.—To enable persons by a cursory glance to see the hours of Moonlight as well as to observe the comparative degrees of it, illustrated or timed columns are given. At times, when the Moon is below the horizou, the bour space is dark, and it is light when she is above the horizon; and these are sufficiently near for the

ASTRONOMICAL PHENONEMA DURING THE MONTH.

Sun.—The times of entrance into the different signs of the Zodica are given; his distance from the Earth in miles; the points of the horizon at which he rises and sets at London, and his time of southing are given each mouth.

Moon.—The constellation in which she is situated every day; the times when she is on the Equator or N. or S. of it are given; the heights in degrees above the horizon when she is on the Meridian on those days in each mouth when she will be the bigbest or the lowest, and when she is near the several Planets in her

the normon when so is on the Meridian of those days in each mouth when she will be the bigbest of the lowest, and when she is near the several Planets in ber monthly course are also noted.

The Planets.—The constellation in which each is situated; the time of rising and setting; points in the horizon at which they rise or set, and all the interesting phenomens of the year connected with them are stated; as well as their paths at those times whou they are situated near conspicuous stars, or near other Planets, are laid down in diagrams showing their paths for the month, so that the gradual approach of a Planet to, or receding from, a Star or another Planet, can be seen for the whole month. At times when it seemed desirable, the appearances of the Planets have been given; and in fact all the information relative to them which our space affords, will be found in each month.

ECLIPSES.—In the year 1848, there will be four Eclipses of the Sun, two of the Moon, and a transit of Mercury over the Sun's disc. (See March, April, Angust, September, and November.)

TWILIGHT and Phases of the Moon.—(See the Introduction to the Illustrated London Almanack for 1847.)

The Weather.—The article on the weather, (page 52), has been written upon the averages as calculated from the observations taken at the Royal Observatory at Greenwich, every two hours, night and day, for four years. They will be found to apply to a large circle around London, and indeed will not differ much, except at pisces North of latitude 54°, and at those places situated near the sea coast.

LAW TERMS, 1848.

As Settled by Statutes 2, George IV., 1, William IV., Cap. 70, S. 6 (passed July, 23rd, 1830). 1, William IV., Cap. 3, S. 2 (passed, December 23rd, 1830.

Hilary Term			Begin	s Januar	y 11	Ends January	31
Easter Term			,,,	April	15	" May	12
Trinity Term	••	• •	**	May	26	" June	16
Michaelmas	**		,,	Nov.	2	"Nov.	25

UNIVERSITY TERMS, 1848.

OXFORD.

TI	ams			BEGIN	3	ENDS	
Lent Easter Trinity Michaelmas		••		January May June October	14 3 14 10	April June July December	15 10 8
Michaelinas	••		••	The Act,		2000111201	

CAMBRIDGE.

TERMS	BEGINS	DIVIDES	ENDS
Lent Easter Michaelmas	Jan. 13 May 3 Oct. 10	Feb. 28, Noon June 4, Midnight Nov. 12, Midnight	April 14 July 7 Dec. 16

GENERAL POSTAL REGULATIONS, &c.

All letters from one part of Great Britain to another (including the Local Penny Posts and the London Twopenny Post) are charged, if prepaid, and not

HOURS OF POSTING FOR THE EVENING MAILS.

HOURS OF POSTING FOR THE EVENING MAILS.

The receiving houses close at 5 30 P.M. Letters are received for the evening's dispatch at the Branch Post-offices at Cbaring-cross, Old Cavendish-street, and 108 Blackman-street, Southwark, until 6 P.M., and, with a fee of one penny, which must be paid by affixing a stamp to the letter, until 6 45 P.M. At the Branch Post-office in Lombard-street, the box remains open witbout additional fee until 6 P.M., and until 7 P.M., by affixing a penny stamp. At the General Post-office in St. Martin's-le-grand until 6, free, and 7 by payment of the extra charge as at Lombard-street. From 7 to half-past 7 P.M., letters may be posted there upon payment of a fee of sixpence each, which must, as well as the postage, be prepaid. Letters intended to pass by outward mails to foreign parts must be posted at the above hours. posted at the above hours.

posted at the above hours.

N.B. Newspapers for the evening mails must be put into the receiving houses before 5 r.M., the Branch offices before 5 30, or General Post-office before 6 r.M. From 6 r.M. to 7 30, on payment of one halfpenny late fee.

Morning Malls are forwarded to most of the principal towns in England and Wales, and to all parts of Ireland and Scotland, for which the letter boxes at the Receiving Houses will be open till 7, A.M. for newspapers, and 8, A.M. for letters; and those at the Branch Offices, Charing-cross, Old Cavendish-street, and the Borough, for newspapers until balf-past 7, A.M., and for letters until 8, A.M. At the General Post Office and the Branch Office in Lombard-street, the boxes will close for newspapers at a quarter before 8, A.M., and for letters at half-past 8, A.M. British and Colonial papers between British Colonies, without passing through

tbc United Kingdom to be free; except that ld. may be allowed as a gratuity to tbe master of the vessel conveying them.

Newspapers, British, Foreign, or Colonial, passing between British or Colonial and Foreign Ports, and through tbe British post, to pay 2d.; if not through the

Newspapers, British, Foreign, or Colonial, passing between British or Colonial and Foreign Ports, and through the British post, to pay 2d.; if not through the British post, td.

The new postage stamps intended principally for the pre-payment of foreign letters have been issued. They are of the value of one shilling each, the colour being green, and the form octagonal, to distinguish them easily from the smaller denomination of postage stamps at present in use. These stamps may be used for inland as well as foreign postage, but they are chiefly intended for the postage of letters to the United States, India, Cbina, the West Indies, New Sonth Wales, New Zealand, and other places to which the postage is one shilling.

The New Post-office Act, of August 1st, 1847, contains 22 sections. By the 1st section, so much of the Act 3 and 4 Vict., c. 96, as enacts that no letter exceeding six ounces weight shall be sent by post is repealed, and that for the future, packages which in length, breadth, or width, exceed twenty-four inches, shall not be forwarded by the post between any places within the United Kingdom, excepting, however, petitions or addresses to her Majesty, or petitions to either House of Parliament forwarded to any Member of either House, or to printed votes or proceedings of Parliament, or to letters to or from any Government offices or departments. The following notice has also been issued. The Postmaster-General of the United States having given a notice for determining the agreement under which the correspondence between Great Britain and Canada bas been conveyed, in closed mails, through the territories of the United States, as well as all other agreements subsisting between the Post-opices of the two countries, the mails to and from Canada will benceforth be landed and embarked at Halifax, N.S., unless specially directed to be sent by some other route; and as the arrangement under which United States postage has hither to been collected in Canada is aiso snspended by the notice alluded to, all letters

thereon. It is gratifying to find that the great national boom of cheap postage bas proved eminently successful. The revenue derivable from this branch of the public service has increased £5000 during the past quarter, and £57,000 on the year ending October 10th. The total net income of the Post-office already yields £859,000 per annum. And as the population increases—as education is more widely and universally disseminated—the Post-office revenue will continue to increase until it yields a larger sum than it did before the adoption of Mr. Rowland Hill's system.

ON THE CALENDAR.

THE PRINCIPAL ARTICLES OF THE CALENDAR, FOR THE YEAR OF OUR LORD 1848.

Dominical Letters	Gregorian or New Calendar.	Julian or Old Calendar. D C
Golden Number	6	6
Roman Indiction	6	6
Solar Cycle	9	9
Epact	25	6

(For remarks upon these several articles, see the Almanack of last year.) CORRESPONDENCE OF THE YEAR 1848 WITH ANCIENT ERAS. 95

The year of the Julian Period 6561	
From the first Olympiad 2624	From the epoch of Nebonasser 2595
FIXED AND MOVEABLE FES	TIVALS, ANNIVERSARIES, &c.
Epiphany Jan. 6	Ascension Day-Holy Thursday June 1
Martyrdom of King Charles I. 30	Pentecost-Whit Sunday June 11
Septuagesima Sunday Feb. 20	Trinity Sunday 18
St. David March 1	Accession of Queen Victoria 20
Quinquagesima—Shrove Sun. 5	Proclamation 21
Ash Wednesday 8	Corpus Christi 22
Quadragesima-1st Sunday] 12	St. John Baptist-Midsum-
in Lent	
St. Patrick 17	Birth of Dowager Queen Aug. 13
Annunciation—Lady Day 25	Adelaide Adelaide
Palm Sunday April 16	Birth of Prince Albert 26
Good Friday 21	St. Michael—Michaelmas Day Sep. 29
EASTER SUNDAY 23	Gunpowder Plot Nov. 5
St. George 23	Birth of Prince of Wales 9
Low Sunday 30	St. Andrew 30
Birth of Queen Victoria May 24	1st Sunday in Advent Dec. 3
Rogation Sunday 28	St. Thomas 21
Restoration of King Chas. II. 29	Christmas Day 25

CALENDAR OF THE JEWS FOR THE YEAR 1848.

5608	1847	NEW MOONS AND FEASTS.
Tebeth 10	December	8 Rosh Hodesh or New Moon 17 Fast: Siege of Jerusalem
	January	6
,, 14		Little Purim: Feast of Haman
,, 11	,,	16 Fast of Esther
,, la	",	20 Schnschan Purim
Nisan 15	,,	4 Passover begins
,, 16		19 Second day 24 Seventh day
Ijar 25	,,	Passover ends
Sivau	,,	2i Lag Beomer
,,		7 Pentecost Holidays, the Feast of Weeks
	July	8 Second day
Ab 1		Fast: Seizure of the Temple by Titus
Eiul 1		8 Fast: Destruction of the Temple
" 7 " 17	September	8 Dedication of the Walls by Nehemiah Expulsion of the Greeks
5609 Tisri 1	"	28 Feast of the New Year
,, 2	,,	29 Second day
" 7	,,,	Fast: Gedaliah Fast for the Worship of the Golden Calf
,, 10 ,, 15	,,	7 Fast: Day of Atonement 12 Feast of Tabernacles
" 16 " 21	"	13 Se oud day 18 Feast of Branches
" 22 " 23	"	19 End of the Feast of Tabernacles 20 Feast of the Law
Marchesvan 1	,,	28 2 Fast : for the Destruction of Jerusalem

The Jewish Year generally contains 354 days, or 12 Lunations of the Moon, but in a cycle of 19 years, an interceding month (Veadar) is 7 times introduced, for the purpose of rendering the average duration of the year quite or nearly correct.

Feast of the Dedication of the Temple

THE MONTHS OF THE TURKISH CALENDAR.

20

25 December

Kisiev

Tebeth

1	Hegiri;	1264,	Moharrem	1 (New Year)	falls on	December 9.	1847.
I	••		Safar 1				January 8,	1848.
ı	••		Rebi-el-Awy	vel 1	••		February 6,	
۱	••		Rebi-el-Accl				March 7.	
1			Dschemâdi e	el-Aww	el 1		April 5.	
Į		••	Dschemådi (el-Acch	er 1		May 5,	
Ì	••		Redscheb 1				June 3.	
I	••		Schâban 1			••	July 3,	
l			Ramadan 1		h of Absti	nence	Augnst 1.	
ı				observ	red by the '	Turks)	August 1,	••
l	••	••	Schewal 1			••	Angust 31,	
l	••	••	Dsu'l-Kade		••		September 29,	
ı			Dau'l-hedsch	né l			October 29,	
l	Hegiri:	1265,	Moharrem 1			1	November 27,	
I			Satar 1				December 27	

The Mahometan Year is purely Lunar; it consists of 12 synodical periods of the Moon (or 354 days, 19 times, and of 355 days 11 times,) in a period of 30

years. The average length of this year is therefore 354 days 8h. 48m., which differs half-a-minute only from the truth; a degree of exactness that only could have been obtained by a long series of observations.

No allowance, however, is made for the excess of 11 days in the length of a tropical year, over the term of 12 revolutions of the Moon; it is evident that in

The Mahometan Era dates from the Flight of Mahomet to Medina, July 16th,

ASTRONOMICAL SYMBOLS AND ABBREVIATIONS EXPLAINED.

O The S	un (24	Jupiter	1 H	Hour	S
(The M	oon	h	Satnrn	M		tes of Tim
(The M Mercu Venus	ry	Ħ	Uranus	S.	Secor	ds of Tim
Q Venus	1	ď	Conjunction	γ	Aries	
	he Earth		Quadrature	8	Taur	us
& Mars		8	Opposition		Gemi	ni
ĕ Vesta ‡ Juno		88	Ascending Node	<u> </u>	Cane	er
# Juno		88	Descending Node	Ω	Leo	
2 Palias		N.	North	m	Virgo)
→ Ceres		E.	East	<u></u>	Libra	t.
Neptu	ne l	S.	South	η	Scort	oio
W Hebe Tris		w.	West	1	Saggi	ittarius
A Hene		0	Degrees	vs	Capri	cornus
		/ 1	linutes of Are	100	Aqua	rius
Astrea		" 5	Seconds of Arc	×	Pisce	S

ASTRONOMICAL TERMS EXPLAINED.

The Equinoctial is a great circle in the Heavens, equidistant from both poles. The Ecliptic is that circle in the Heavens, in which the Earth performs its an-The Ecliptic is that circle in the Heavens, in which the Earth performs its annual revolution round the Sun; half of it being on the North side, and half of it being on the South side of the equinoctial: it is supposed to be divided into twelve equal parts, called si as, each of which has an extent of 30°, and each of them is represented by a symbol as shown above.

The Equinoctial Points are those two opposite points in the Heavens, where the Ecliptic and the Equinoctal cross each other.

The Precession of the Equinoces is a change in the position of the Equinoctial points, which move backward about 50½ seconds of arc every year.

The Zerlik is that point in the Heavens which is situated directly over the head.

The Zenith is that point in the Heavens which is situated directly over the head

of the spectator.

The Nadir is that point of the Heavens directly opposite to the Zenith, or under

The Nadir is that point of the Heavens directly opposite to the Zenith, or under the feet of the spectator.

The Zodiac is a zone of about 16° in breadth, extending all round the Heavens, and in the middle of which is the Ecliptic. This zone includes the orbits of all the known Planets except some of the smaller ones.

Meridians are circles in the Heavens, perpendicular to the Equinoctial, and passing through its poles; and which, therefore, pass through the true N., and S. parts of the Horizon and through the Zenith.

The Horizon is that circle which is equally distant from the Zenith and the Nadir.

Vertical Circles are those which, pass through the Zenith and the Nadir, and are

Vertical Circles are those which pass through the Zenith and the Nadir, and are

Vertical Circles are those which pass through the Zenith and the Nadir, and are perpendicular to the horizon.

The Allitude of a Celestial Body is its height above the horizon, expressed in degrees, reckoned on the vertical circle which passes through it.

The Meridian Allitude is the altitude when it is on the meridian.

The Orbit of a Planet or Comet, is the path in which it performs its revolution round the Sun. The orbits of all the Planets are elliptical or oval, with the Sun situated in one of the foci, but less elliptical than is shown in the following



when the Planet is at A, it is then said to be in Apbelion, and when it is at P, it is said to be in Perihelion, these positions being respectively the greatest and least distances of the Planet from the Sun during its revolu-tion. When the Plauet arrives at M or N it is said to be at its mean distance.

The straight line join-ing A and P, and that joining M and N, are re-

spectively the greater or the lesser axis of the orbit; the former is called the line of the apsides. The Sun occupies that foci of the ellipse which is nearest to P Whilst the Planet is performing its revolution round the Sun, it has also a mo-

tion round an imaginary line passing through its centre. This line is called its axis.

The extremities of this line are called the Poles; and that, which, if continued, would meet the northern Heavens, is called the North Pole; and the other the South Pole.

The Longitude of celestial bodies is reckoned eastward from the vernal equinox on the Ecliptic.

The Right Ascension of celestial bodies is reckoned eastward from the vernal equinox on the Equinoctial.

The Latitude of a celestial body is reckoned from the Ecliptic North or South.

The Declination of a celestial body is reckoned from the Equinoctial, North or

South

The Elongation o, a Planet is its distance from the Sun, expressed in degrees, as seen from the Earth.

The Opposition of two celestial objects takes place when they are in opposite

parts of the Heavens, as seen from the Earth, and their Conjunction when they are in the same parts as seen from the Earth.

The Direct Motion of a Planet is when its motion is in the order of the signs as passing successively from Aries to Taurus, &c. The Retrograde motion is when it

is moving in the contrary direction.

An Occultation by the Moon of a Star or Planet, takes place when the Moon is between that object and the Earth.

The Disc of the Sun or Planet, is its whole orb, or its face. When any Planet passes across the Sun it is said to transit his disc, as Mercury will do on November 9, of this year.

Penumbra, is a faint shadow which borders the dark shadow produced by an eclipse. Digit is the twelfth part of the Sun or Moon's diameter.



			77.6			-	PULL			11.	11/1/	14	1011	w		JA W	0/						
м	w	ANNIVERSARIES, OCCUR-		8	UN.				M	DON,		!				MOONLI				VATER		EUA-	12 1
D	D	RENCES, FESTIVALS &c.	RISE	SE		TION	R	SES.	So	UTHS	SET	rs.		Sunris	e. 'g	Alter	Sunset	ATL	ONDON	BRIDGE.		ON TIME.	22
				1		South.	Mor	ning.	Mon	ming.	After:	noon	2h 4	llock.	Moon' Age.	6h. 5	Clock. Sh. 10h.	Mor	ning.	Afternoon	A	dd.	å:
			н. м	. н.	M. I	eg. Min.	u	M.	н,	M		м.	0///12	1	No. No.	8/1/1/8/1/1	28007 BIII.	н.	М.	ъ. м.	M.		
1	S	Circumcision .	8	3 4	0 2	3 4	2	45	7	-53	0	54	1//2 2		25			9	43		3	36	1
2	S	2ND. SUNDAYAFT.	8	3 4	1 2	22 59	3	47	8	39	1	26^{l}	11/2 1/2	1-1-	一時			10	50	11 25		30	6
3	M	Christmas. The early		34	-	$\frac{2}{2}$ 53	4	48	9	27	2	2	21111		-123			16.	02	-	4	4	
-		Christians celebrated the Feast of the Nativity, for 12	1				'±	40	10		_					100 110		111	55	No tide	4	33	3
4	Tu		8	3 4		22 47	9	48	10	18		47			28			0	23	0 45	5	0	4
5	W	mas Day, which was called the greater Epiphany, and	18	7 4	3 2	241	6	43	11	-9	2	38		11/1/1/1/1/1	29	11/1/1/1/	11/1/1/1/	1	8	1 30	5	28	5
6	TH	Twelfth Day the lesser	8	7 4	4 2	2 34	7	34	Afte	тооп	4	37	7/10	11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	THE REAL PROPERTY.	1/		1 1	50	2 10	5	55	6
7	F	Epiphany aArietis souths at 6h.54m. P.M.	8	7 4	- 1	2 27	8	16	0	57		43			Q	923 920		1			_		0
	S	Gr T		2 4	- 1		1		1		1 -			770		1/1/1/		2	31	2 50	6	21	1
8		St. Lucian	1 -	34	- 1	2 19	8	55	1	51		54			2	1/1/2		3	9	3 30	6	47	8
9	S	1st S. aft. Epiph.	8	1	$ 9 ^{2}$	2 11	9	21	2	44	8	9			3			3	49	4 10	7	13	9
10	M	Plough Monday	8	3 4	[0]2	2 3	9	59	3	36	9 5	25			184		6///	4	30	4 50	7	38	10
11	Tu	Hilary Term begs.	8	5 4	$\lfloor 1 \rfloor 2$	1 54	10	26	4	27	10 4	40			5		7 1111	5	10	5 35	8	2	11
12	W	Term begins	8	5.4	139	1 14	10	54	5	10	11 /	56			6		- 1111	_	- 1		0		11
13	783			1 1	1 1 0	1 95	11	23	G	11			200 000		100			5	55	6 20	8	26	12
-	IH D	St. Hilary. Camb.		1 -1	4 2	1 30	111		0	11	Morni		111 1111		1.2			6	43	7 10	8	49	13
14	r	Ox. Term begins	8	3 4	16 2	1 24	11	53	1	4		12	1/		8		_	7	35	8 10	9	11	14
15	S	Aldebaran souths at Sh. 50m.	8 :	24	$ 8 ^{2}$	1 14	After	rnoon	7	59	2 2	26			9			8	45	9 20	9	33	15
16	S	2D S. AFT. EPIPH.	8	14	192	1 3	1	11	8	55	3 3	38]			10 63			9	55 1	0 35	9	54	16
17	M	Capella souths 9h, 20m, P.M.	8 1	11	21 9	0 51	Ī	5.0	9	51		15	-	1/1/1/1/1/	133			1 7	1 11	1	9	1	10
10	7.0	D: OH TO	7 5	1 4	20 0	0 00	0	00	10	4 =	_		-	300 000				1 1	15_{1}	1 55	10	15	1/
18	โบ	Prisca. Old. T. Day	/ 3:	94	22 2	0 39	2	99	10	4/		44		<u> </u>	12		_ _	No t	ide	0 25	10	34	18
19	W	Rigel souths 9h. 14m, P.M.	7 58	3 4 3	24 2	0 27	3	55	11	41		36			185			0	53	1 20	10	53	19
20	TH	Fabian	7 58	34 5	25 2	0 15	5	0	Morn	ing,	7 2	21						1	47	2 10	11	11	20
21	F	Agnes	7 5	4 9	27 2	0 2	6	- 8	0	33	7 5	57			Tes				33	2 55	11		21
22	S	Vincent	7 50	11 0	0 1	9 48	7	15	ī	23		28			175						11		20
	- 1		7 5	1 4	1 1	9 34	0	- 1	0			- 1				<u> </u>			15	3 35	11	40	22
23	S	3d S. Aft. Epiph.	7 32	4 4	1 1		8	19	2	10		56						3	50	4 10	12	2	23
24	M	Pitt died 1806	7 53	343	33 I	9 20	9	21	2	55	9 2	21			1101			4	30	4 45	12	17 3	24
25	$T_{\rm U}$	Conversi. St. Paul	7 5	4 :	5 1	9 6	10	26	3	38	9 4	14			19			5	5	5 20	12	31	25
26	W	Beta Tauri sonths Sh. 55m.	7 50	4 3	7 1	8 51	11	29	4	21	10	7			28			5	40	5 55			26
27	T.	P.M. Sirius sonths 10. 13m. p.m.	7 48		0 1	8 36	Morn		5	1	10 3	rίΙ			2I			c	10		_		50
20	D	Procyou souths 11h. 1m. P M.	7 47	1	0 1	_	O		-	47					44			0	10	6 30	_	58	2/
	F			4 4	UI	8 20	0	30	5	4/		6		_	5			_	50	7 10	13		28
- 4	S	K.Charlesmart.	7 46	4 4	1 1	8 5	l	32	6	32	11 2	26			23			7	35	8 0	13	21 2	29
30	S	4TH. S. AFT. EPIP.	7 45	4 4	3 1	7 49	2	32	7	18	11 5	591			24			8 :	30	9 10	13	31	30
311	M	Hilary Term ends	7 44	4 4	5 1	7 32	3	32	8	7	Afterno	on						0	45 1	0 25	13		31
	-	4																	, 1	0 20 1	117		-

JANUARY.

THE SUN is in the sign Capricornus (the Goat) till the 20th; on which day at

THE SUN is in the sign Capricornus (the Goat) fill the 20th; on which day at 8h. 41m. P.m., he enters the sign Aquarius (the Water-bearer.)

On the 1st at noon he is 93,410,000 miles from the earth. He rises on the 1st at 3°S. of the S.E. by E., on the 15th, at the S.E. by E., and on the last day nearly midway between E.S.E and S.E. by E. He sets on the same day at 3°S. of S.W. by W.; at the S.W. hy W.; and midway between W.S.W. and the S.W. hy W. points of the horizon. He souths on the 1st at 3m. 36s.; on the 15th, at 9m. 33s., and on the last day at 13m. 41s. after noon, (common clock time) at the altitude of 15° on the 1st; of 17° on the 15th; and of 21° on the last day

day.

The Moon rises between midnight, and before noon, from the 1st to the 14th, and between noon and midnight after the 16th. She sets afternoon and before midnight, from the 1st to the 12th; and after midnight, and before noon, from the 14th to the end of the month. The Moon is in the constellation Libra, on the 1st and 2nd: in that of Ophiuchns, on the 3rd and 4th; her motion is on the boundary. and 2nd: in that of Ophiuchns, on the 3rd and 4th; her motion is on the boundary of those of Sagitarius and Aquila, on the 5th and 6th; in that of Aquarius, from the 7th to the 9tb; in Pisces, on the 10th; Cetus, on the 11th and 12th; Pisces, on the 13th; Cetus again on the 14th; Taurus, on the 15th, 16th, and 17th; Gemini, on the 18th and 19th; Cancer, on the 20th; Leo, on the 2st, 22nd, and 23rd; Virgo, on the 24th, 25th, 26th, and 27th; Libra, on the 28th and 29th; and Ophiuchus, on the 30th and 31st.

On the 1st she is situated south of the Equator, and is moving southward till the 4th day; at this time she attains ber lowest point, and is 20° above the horizon when she souths; after this time she is moving N.; is on the Equator on the 2nd, and attains her greatest altitude on the 18th, at which time she is 56° above the horizon when she souths.

the horizon when she souths.

She is New on the 6th and Full on the 20th, but without an eclipse at hoth times.

On the 2nd day she is near Venus; on the 5th, near Merenry; on the 10th, near Saturn; on the 12th, near Uranus; on the 14th, near Mars; and on the

19th, near Jupiter.
On the 16th she is near the Pleiades, and on this day the bright star Aldeharan

is occulted by her. (See below.)

MERCURY is in the constellation of Sagittarius till the 22nd, and in that of Ca-

On the 16th she is near the Pleiades, and on this day the bright star Aldeharan is occulted by her. (See below.)

Mercury is in the constellation of Sagittarius till the 22nd, and in that of Capticorous from the 23rd.

He rises on the 1st, at 7h. 0m. A.M.; on the 4th, at 7h. 11m. A.M.; on the 7th, at 7h. 21m. A.M.; on the 15th, at 7h. 30m. A.M.; on the 15th, at 7h. 43m. A.M.; and on the 22nd, at 7h. 55m.; these times precede those of the Sun rising on the 1st by 1h. 8m.; on the 4th, by 0h. 57m.; the 7th, by 0h. 46m.; the 10th, by 0h. 36m.; the 16th, by 0h. 18m.; and on the 22nd, by 0h. 1m. From the 23rd to the end of the month, the Sun rises before the Planet, and on the 31st day they set together; therefore, during the first 10 days of this month, before sun rise, the Planet is rather favourably situated for observation, during which time he rises near E.S.E.

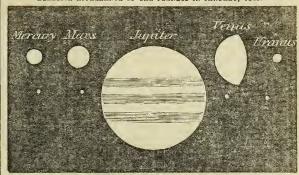
He is moving eastward among the stars during the month, and is at his greatest elongation on the 25th day, being 18° East, at which time his appearance is that of a half circle. At the beginning of the month his appearance is that of a circle, as is shown in the annexed diagram, exhibiting the relative appearances of the Planets at the beginning of the year.

Venus will be in the constellation of Libra till the 6th, in that of Scorpio from the 7th to the 9th, and in that of Capricorons from the 9th to the end of the month. She is a morning star, and rises on the 1st at 4h. 10m. A.M., near the E.S.E.; on the 15th, at 4h. 41m. A.M. near the S.E. by E.; and on the 31st, at 5h. 11m. A.M., at the S.E. by E. point of the horizon. She souths at 8h. 50m. A.M., on the 1st; at 9h. A.M., on the 15th; and at 9h. 16m. A.M., how any of the working eastward among the stars during the whole year. She isnear the Moon on the 2nd, and on the 7th, before Sunrise, she is within 2° of Beta Scorpii, the star being the higher of the two objects.

Mas will be in the constellation Aries throughout the month. He is an evening star, and sets on the 1st near W. by N., at 2h. 53m. A.

He is visible throughout the night; he rises at the N.E. by E. on every day; at the former part of the month at about the time of Sun setting; and sets at the N.W. by W., at about the time of Sun rising; towards the end of the month he

RELATIVE APPEARANCE OF THE PLANETS IN JANUARY, 1848.



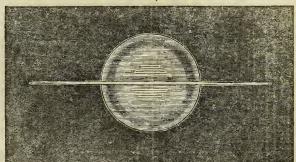
Scale, forty seconds of arc to one inch

rises before the Sun sets; and he sets before the Sun rises. He sonths at an altitude of 61° above the south horizon, on the 1st, at 27m. after midnight; on the 15th, at 11h. 24m. P.M.; and on the 31st, at 10h. 13m. P.M.

He is moving slowly westward among the stars. The Moon is near him on the 19th. At the beginning of the month he is 11° distant from Castor, and 8° from Pollux, and during the month he is moving slowly from them. No Planet is near him. A number of eclipses of the Satellites are visible; the times at which these phenomena take place are shown below.

SATERN will be in the constellation of Aquarius throughout the month. He is an evening star, and sets near W. by S. on every day. On the 1st, at 9h. 14m. P.M.; on the 15th, at 8h. 25m.; and on the 31st, at 7h. 33m. He rises before noor, and souths on the 15th, at 3h. 11m. P.M. He moves slowly eastward among the stars till the end of June. He is near the Moon on the 10th, and Mercury on

TELESCOPIC APPEARANCE OF SATURN DURING THE MONTHS OF JANUARY AND FEBRUARY, 1848.



Scale, fifteen seconds of arc to one inch

In this Planet's course round the Sun, the ring assumes a variety of appearances, from being fully presented to us, then gradually becoming smaller and smaller till it becomes invisible, or, as viewed through the most powerful telescopes, merely an almost imperceptible line. The ring is now approaching to this state, and will have the appearance as shown in the annexed diagram, during this and the following month. The progress of the decrease and increase of the appearance of Saturn's ring, is an interesting phenomena to watch. (See the engravings of Saturn in this, and those in the two preceding Almanacks.)

ith.	Length of Day, or	Number of Hours and Time of		JUPITER'S S	ATELLITES.	OCCULTATION	S OF STARS BY TH	IE MOON.
Days of the Month.	number of hours he- tween sun- rise and sunset.	Minutes the Day hreak, Day has in- or beginning creased since of Twilight. the Shortest Day.	Time of Twilight Ending.	lat Sat. Immersion, I.	2nd Sat. Emersion, E.	Names of Stars,	Times of disapper and rc-appearance Star.	At the dark arsnce or bright e of the limb of the Moon.
1 6 11 16 21	H. M. 7 52 7 57 8 6 8 18 8 30 8 47	H. M. H. M. O 7 6 3 0 12 6 3 0 21 6 1 0 33 5 59 0 45 5 55	H. M. 6 5 6 10 6 15 6 21 6 28 6 28	D. H. M. 5 3 24 A. M. I. 8 6 34 P. M. E. 14 2 0 A. M. E. 15 8 29 P. M. E. 21 3 54 A. M. E. 22 10 23 P. M. E.	D. H. M. I 1 7 40 P. M. I 9 1 7 A. M. E. 16 3 43 A. M. E. 26 7 38 P. M. E 3rd Sat.	N Tauri u Geminorum	1 { 16 3 44 p. 16 4 29 p. 17 10 26 p. 17 11 27 p. 5½ { 18 8 32 p. 18 9 37 p.	M. Bright M. Dark M. Bright M. Dark
31	9 1	1 16 5 45	6 44	30 0 18 л. м. Е. 31 6 46 р. м. Е.	4th Sat. 28 9 43 P. M. I 29 0 59 A. M. E	29 Cancri	6 { 20 6 9 P. 6 47 P.	м. Bright м. Dark
And wh	en she ia at h	ANGES OF THE MOON er greatest distance (Apogue (Perigee), from the East	wonth	RIGH MERCURY. Right tion South Scension South	Declination Right	D DECLINATIONS OF S. JUPITER. Declination North. Ascension North. North.	SATURN. Right Declination	URANUS. Right Declination North.
FULL 1	QUARTER MOON QUARTER	13 11 47 A 20 0 5 P 28 11 59 A	.м. 6 1 .м. 11 1 .м. 16 1 .м. 21 1	7h, 36m 23° 24′ 15h, 31m 8 8 24 6 15 54 8 42 24 16 16 17 9 16 23 53 16 41 20 27 21 18 17 5	16° 1' 2h. 12m 14' 17 22 2 18 18' 18 34 2 25 18' 19 37 2 33 16' 20 29 2 41 17 21 9 2 50 18'	5 20 7 8 22 44 5 59 7 5 22 49 6 39 7 2 22 54 7 19 6 59 22 59	22h, 43m 10° 7′ 22 45 9 57 22 47 9 46 22 48 9 34 22 50 9 22 22 52 9 10	0h. 54m 5° 4′ 0 54 5 6 0 54 5 7 0 55 5 10 0 55 5 12 0 56 5 16

COUNTRY SCENES—JANUARY.

(FOR EVERY MONTH, BY THOMAS MILLER.)



Ah, bitter chill it was!
The owl, for all his feathers was a cold;
The hare limped trembling through the frozen grass,
And silent was the flock in woolly fold.

Keats.

And silent was the flock in wood JANUARY is called the Gate of the Year—the Entrance Hall that leads to the seasons. We must pass through the grcy leaden-coloured portico, supported with glittering pillars of ice, before we can reach the flowery doors of Spring, beyond which the dark green gates of Summer open, while far behind Autumn swings wide upon its golden hinges, revealing a landscape that looks like the ocean basking in the yellow sunshine, its waves the ever-moving uplands, waving drowsly with eary corn.

The walls of this solemn hall, which open indistinctly upon a longer twilight, and silently diminish the darkness that hangs upon the edge of the expanding day, are formed of grey snow, propped up by the mighty bulk of naked forest trees; the knotted and iron elbows of which are linked one within the other—while around hang life-like pictures, all in keeping with the scene—landscapes of ice and snow with cold looks that are half warmed by the dark foliage of the evergreens, and cheered by the rounded crimson of the holly berries, while the trailing ivy, from which the snow flakes have melted, clasps the cottage chimney whence the curling smoke ascends in trails of blue and silver, like clouds that have lost their way, and are wandering back again to the sky. There, spreads ont a lonely mere, seeming darker through contrast with the snow-wreaths which surround it, while, deep below, the trees look down, as if cnt out from solid ebony: and the crisped reeds, the ghastly skeletons of Summer, whisper to each other with a frozen breath, as if they dreaded that the bleak north wind

should overhear their husky rustling, or with his cutting shears lay them prostrate, blanched, withered, and dead.

In another picture, we see a rustic stile; the snow, that rests upon the barked bars, is imprinted with the robin's feet, while his scarlet breast, harmonising beautifully with the cluster of crimson hips that droop from the leafness pray of the wild rose, form a cheerful foreground to the desolate moorland that lies bebind; and see look upon the open beak of the bird, and his black-beaded and fearless eye, we can fancy that we hear him singing as sweetly as if Summer still stood on tiptoe with her hair unbound, and held between her rosy fingers her streaming garland of long green leaves.

Further on we bebold the blue titmouse, hanging by its hooked claws, back downward—yet never fearful of falling; peeping with curious eye, beneath the level-clipped broad-thatched caves in scarcb of insects, while the white cat, motionless, as if cut out of marble, sits watching npon the smooth-bricked window-sill, sometimes feigning sleep, yet ready to spring up, if only a straw fall from the beak of the busy bird. Past the church porch, whose steep roof covered with unruffled fiakes, an old beggar-man in his thread-bare coat moves slowly along, his head bow-bent—the cutting wind that comes sweeping round the low square tower, blows back bis long silver hair, on which the unmelted snow rests, and he pulls his weather-beaten hat lower over his forebead, and grasps bis long staff firmer, with his cold blue hands, as he faces the eddying gnst.

Whichever way the ohservant eye turns, this great Hall that opens upon the year is hung with pleasing pictures, and filled with interesting objects. On the dark heams that span ahove, the hat folds up his leathern wings, and with his head drooping, soundly sleeps; the little dormouse, coiled up like a hall, rests in its hurrow, heneath the roots of the antique oak, and should it chance to awaken hefore the warm days come, feeds upon the hoard it has secured, then folds itself up again in its dark chamber, and waits until it sees the sun-shine streaming from the chinks of the inner door of Spring. High overhead, though still helow the heavy snow-filled clouds, is heard the shrill scream of the wild geese; their arrowy-pointed ranks cleave the chilly air, as they sail at night far over the silent town to where the reedy marsh and the sedgy morass stretch out, intercepted by melancholy streams, on the surface of which, excepting themselves ouly, the shadow of the solitary fowler in his hoat is seen to move. There, when the wind stirs the ridgy ripples in the calm moonlight, the wild swan sleeps majestically upon the rocking eddies; the uuderdown of his silver plumage bared by the fiftful gusts that come by sudden starts and then are still, although the rocky motion uncoils not his arched neck, nor unfolds the hlack heak which is thrust for warmth under his wing.

for warmth under his wiug.
Without, ou the frosted branches, the fieldfares sit huddled together in their Without, ou the frosted branches, the fieldfares sit huddled together in their feathery coats, looking with hungry eyes upon the few withered herries, black and hard, which the wintry wind has left; while, in the distance, the poor sheep pause every now and then to give a plaintive hieat, as they cease for a moment their cold lahour of hurrowing for food amid the knee-deep snow; for every-way the country around is covered with it, the fields are all but silent, the high roads are no longer alive with husy figures, and where the heavily laden waggon moves slowly along, it comes with a dead and muffied sound, unlike the cheefful tramp and gritty creak which grinds down the wayside pebbles into

summer dust.

summer dust.

Few, excepting they are true lovers of nature, would be tempted to climb the summit of a steep hill to witness the strange and beautiful appearance the land-scape below presents if covered deeply with snow. Ascend, and you seem as if looking over a country that is silent and uninhalited. The hedges rise, like white walls, huilt up as houndary lines through a vast expanse, that one way presents no other landmarks, excepting a few trees, and the hlack line of a winding river; all beside is one wide outstretched territory of snow. Objects which, at other times, are familiar to the eye, have assumed new shapes; the thatched roof of the cottage and the hayrick, the shed in the field and the high pile of winter-faggots, have all put on a strange disguise; and, but for the smoke which is distinguishable above the low chimney, there is no stir of life to proclaim the existence of man. To the left, the village-spire rises like a lonely monnment ahove a huried country, which seems to tell that all helow are dead; for the roads are no longer visible, and what motion there is in the little hamlet is unperceived. It seems as if it had drifted far away, and was fast sinking in the centre of a great and silent sea of snow, the church-spire alone visible above the floating and far-off wreck.

Formless, the pointed cairn now scarce o'ertops The level dreary waste; and coppice-woods, Diminished of their height, like bushes seem.

Formless, the pointed cairn now scarce electors
The level dreary waste; and coppice-woods,
Duminabed of their beight, like bushes seem.

What a picture of the wild and fearful winters of ancient times is presented in the name our Saxon ancestors gave to January, which they called Wolf-month: on account of the ravages made by that animal at this dreary and desolate season of the year. Then our island abounded with huge morasses, swampy wastes, lonely moors, and vast tracts of dreary forest-land, and over these snowy solitudes, in the dark midnights of winter, the howl of the wolf was heard, as, ravenous for prey, he ventured nearer the Saxon huts, and prowled about the doorway of the habitation of man. Dismal and dangerons were the paths then traversed by the lonely wayfarer, for towns and villages lay long and wide apart, and there were hut few roads, excepting the long, straight, monotonous highways made by the Romans, or the broken and uncertain bridle-paths, which wound along the dangerous and precipitous hanks of the rivers, or at hest, in later times the marrow ways traversed by the ancient merchants, with their trains of packhorses, who went, carefully picking their way through the storms and snow, and darkness of winter. Even now in the vast wolds of Yorkshire, and over the wild hroad marshes of Lincolnshire, there exists many a miry and dangerous cross-road, where even a traveller well acquainted with the country, is, in winter, in momentary danger of foundering.

Although Jannary is one of the coldest months of the year, it is accompanied with the country, is, in winter, in momentary danger of foundering.

Although Jannary is one of the coldest months of the year, it is accompanied with the country is one of the coldest months of the year, it is accompanied with the consolation of knowing that the shortest day is past, and that every sunset brings us nearer to the flowery land of spring, for on each morrow we hear the chirrup of the sparrow sooner under the eaves, and we find the grey dawning peeping i

Those boughs, which shake against the cold Bare ruined choirs where late the sweet birds sung

The Winter-sleep of many animals is a wonderful provision of nature—although we are perhaps wrong in giving the name of sleep to such a state of torpor, for it is neither produced by over-exertion, nor caused by a want of repose. Some prepare for this uncertain state of slumber by storing up food against they awake, or revive—for either hunger, or a sudden change from cold to heat, or causes which are to us unknown, and against which several of our hibernating quadrupeds appear to guard, often rouse them at mid-Winter, and there is no doubt that they would perish were it not for this fresh supply of food. Some, like the dormouse and harvest-mouse, coil themselves up like a hall, and may be rolled ahout without evincing any sign of life while in this state—so may the hedgehog—although the latter ever assumes such a form when in danger, and presents the same lifeless appearance at pleasnre, while, unlike the former, it lays up no store against Winter. The squirrel also passes a great part of the cold season in a torpid state, taking care, however, it case he should feel "the hungry edge of appetite," to have a dozen or two of well-stored larders in readiness, which he very often finds robbed, when he comes to visit them. But no one seems to lay up such provision for Winter as the long-tailed field-mouse, which consists of acorns, nuts, corn, and seeds of various descriptions, the accumulation of many a journey, which, when garnered, and nicely arranged, is often rooted up by some heg, as he comes grunting and smelling ahout the ground, where this little hoarder has concealed his treasure. How he manages to pass the Winter when his house is thus broken open and rohhed, we are at a loss to divine, for we can readily imagine that one who has made such homitiful provisions in his chamber, would not he able to rest long together when it is empty. The hats also hibernate, huddling together for warmth, and not only holding on the roofs, and heams, and caverns, and in the hollows of trees, by their claws, hut crowding on The Winter-sleep of many animals is a wonderful provision of nature-although

frost-work assumes, and although we must venture out of doors to witness the most wonderful productions formed by this strange and silent hand, still those who are too fearful of the cold, or too indolent to venture forth, may discover within most wonderful productions formed by this strange and silent hand, still those who are too fearful of the cold, or too indolent to venture forth, may discover within doors, traces of the finger of this Hoary Worker—shruh, and flower, and leaf, as of network and cunning embroidery, all wrought in one night by this silent and unseen enchanter. What wild landscapes does he put together! mountains, and deep gorges, and steep precipices, with overhanging pines that seem ready to drop into the dark gulf below—for such are among the many wonders which this artist produces. Strange effects are also wrought by a sudden freezing shower; when the rain encloses all it falls upon, as if with a glass covering, or clings to leaves of the elegance travel, until larger objects, and hangs them about with gems of the clearest crystal, until

In pearls and rubies rich the hawthorn show, While through the ice the crimson herries glow.

These showers also produce a startling effect npon hirds, causing them to flutter and shake out their wings to get rid of the cumbersome jewels, that only impede their free and natural motions. Yet this very power slowly produces the mighty glacier that, in its thunderous fall, shakes the whole valley into which it mighty glacier that, in its thunderous fall, shakes the whole valley into which it descends. January is considered a dead month, and in a severe winter, is one of the dullest in the whole circle of the year; still the out-of-door naturalist will find many objects to instruct and interest him, and may hecome acquainted with the habits of many living things which the full-leaved summer enshronds. Birds, which at other times seldom venture near the abode of man; insects, which a fine day of sunshine has aroused from a torpid state; and animals which the floods or hunger have forced from their hiding places; for even the little harvest mouse, either driven from the harn by the removal of the corn, or disturbed from its winter slumher in the earth, may sometimes be seen hurrying off through the shelter of a leafless hedge to its retreat, for

Nature in her sleep is never still.





M	W	ANNIVERSARIES, OCCUR-	-			DECLI	NA-		1 0	1		Before Sunrise.	1 .02 [After Sunset.	AT LOND	ON BI	LIRGE.	TION	29
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	-		-	-								2h. 4h. 6h.	124	6h. 8h. 10h.		-			12
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16	11	and suffered martyr lum	7	163	5 13	12 3	31	2 48	10 20	5 5	17				No Tide.	0	15	14 25	47
17		und r the Empe or Vale-	7	14	5 15	12	10	3 54	11 10	- 1			12		0 46	1	10	14 91	48
18		Aldebaran souths 6h. 36m. P.M.	7	19	5 17	11 4	19								1 36		10	14 16	49
	1 ~	Capella souths 7h. 10m P.M.	7	10 6	5 19		28	0	-						$\frac{1}{2} \frac{30}{20}$		40	14 11	50
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21	М	Castor souths 9h 23m. P.M.	1	0 :	23		15	8 12	1 33		48		10		3 35		50	13 58	52
22	Tu	Procyon souths 9h. 25m r. M.	7	4 3	5 25	10 2	24	9 15	2 10	8	11				4 5	4	30	13 51	53
23	W	Pollux souths 9h. 25m. P.M.	7	2 5	5 27	10	2	10 18	2.59	8	34		18		4 35	4	50	13 43	54
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26		Rigel souths 6h. 44m. r.m.	6	55 5			55	0 19	5 11	9	58		21		6 15	6	30	13 16	57
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FEBRUARY.

The Sun is in the sign Aquarius till the 19th; on which day at 11h. 20m. A.M., he enters the sign Pisces (the fishes).

On the first day he is 93,630,000 thousand miles from the Earth. He rises on the 1st midway between the E.S.E. and S.E. by E.; and sets midway between the W.S.W. and S.W. by W. On the 11th, he rises at the E.S.E., and sets W.S.W.; and on the last day, he rises and sets 2° south of E. by S. and W. by S. respectively. respectively.

He souths on the 1st, at 13m. 50s.; on the 15th, at 14m. 28s.; and on the last day, at 12m. 43s., after noon (common clock time); at the altitudes of 21° on the 1st; 25° on the 15th; and of 304° on the 29th.

The Moon rises between midnight and noon from the 1st to the 13th, and after

noon and before midnight from the 15th day. She sets between midnight and noon from the 1st to the 9th, and between midnight and noon after the 11th.

noou from the 1st to the 9th, and between midnight and noon after the 11th.

She is moving on the boundaries of the constellations of Sagittarins and Aquila, on the 1st, 2nd, and 3rd; in Capricornus on the 4th; Aquarius on the 5th; Cetus on the 1th; Cetus on the 1th; Cetus on the 1th and 15th; Cencer on the 16th and 17th; Leo on the 18th, 19th, and 20th; Virgo on the 21st, 22nd, 23rd, and 24th; Libra on the 25th and 26th; Ophiuchus on the 27th, and 28th; and Sagittarius on the 29th.

On the 1st, she is at her lowest point, and is 20° above the horizon when she souths; after this time, she is moving northwards or upwards; is on the Equator on the 8th; and attains her greatest altitude on the 14th, at which time she is 56° above the horizon, when she souths; is on the Equator again on the 21st; and at her lowest point again on the last day.

She is New on the 5th, and Full on the 19th; but without an eclipse at both times. On the 1st, she is near Venus; on the 5th, near Mercury; on the 7th, near Saturn; on the 9th, near Uranus; on the 11th, near Mars; and on the 15th near Jupiter.

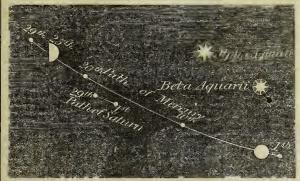
Several stars are occulted by her during the month, for list of which, and

Several stars are occulted by her during the month, for list of which, and times of occurrence, sco below. The bright star Aldebaran is occulted on

the 12th.

Mercury, between the 1st and the 6th, is in the constellation of Capricornus; he passes, on the 6th, into Aqnarius; and, on the 18th, into Picces.

PATH OF THE PLANETS MERCURY AND SATURN, IN FEBRUARY, WITH RESPECT TO EACH OTHER, AND TO THE FIXED STARS.



Scale, fifteen degrees to an ioch; the planet Mercury is drown on a scale of 40 seconds of arc to an ioch.

He sets on the 1st, at 4h. 50m.; on the 6th, at 5h. 24m; ou the 12th, at 6h. 4m.; on the 15th, at 6h. 24m.; on the 18th, at 6h. 43m.; on the 21st, at 7h. 0m.; on the 24th, at 7h. 12m.; on the 27th, at 7h. 26m.; and on the 29th, at 7h. 22m. These times follow those of the Sun setting, on the 1st, by 4m; on the 6th, by 29m.; on the 12th, by 48m.; ou the 15th, by 1h. 11m.; on the 18th, by 4h. 26m.; on the 21st, by 1h. 37m.; on the 24th, by 1h. 43m.; ou the 27th, by 1h. 53m.; and on the 29th, by 1h. 45m. Therefore, from the 15th to the end of this month, this planet is very favourably situated for observation, after the Sun has set. The interval of time between the Sun and this planet setting, on the 27th day, is the largest in the year. The points of the horizon

ULL MOON LAST QUARTER PERIOEE ... APOGEE ...

27 8

A.M.

where he will set during the month are near W.S.W. at the beginning; near W. by S., at the middle; and near the West, at the end. He is moving Eastward among the stars very quickly at the beginning, and less quickly towards the end of the month; as is shown in the subjoined ent, which also shows that the planets Mercury and Saturn are near to each other on the 18th. The appearance of Mercury is also shown at the beginning, and near the end of the mouth; between these times, the planet's appearance will be intermediate between these two appearances.

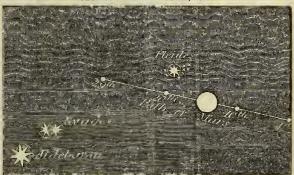
VENUS will be in the constellation of Sagittarius till the 24th, and in that of

VENUS WILL DE IN the Constellation of Sagittatius till the 24th, and in that of Capricornus after that time.

She is a morning star, and rises near the S.E. by E., on the 1st, at 5h. 12m.; on the 15th, at 5h. 29m. a.m. On the 1st, she souths at 9h. 17m. a.m.; on the 15th, at 9h. 34m.; and on the 29th, at 9h. 50m. a.m., at an altitude of 17° on the 1st, gradually increasing to 19° on the 29th. She is near the Moon on the 1st.

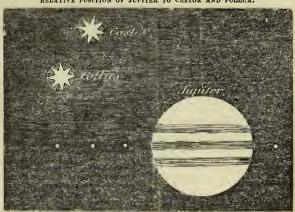
Mass will be in the constellation Aries till the 9th, and in that of Tanrus from the 10th to the end of the month; and Jupiter will be in that of Gemini throughout

PATH OF MARS IN FERRITARY, 1848



seven-and-a-half degrees to one inch; the appearance of Mars is drawn on a scale of 40 seconds of orc to one inch.

RELATIVE POSITION OF JUPITER TO CASTOR AND POLLUX



one inch; the planet is drawn on a scale of of arc to one inch.

th.	Length of Day, or	Number of Hours and	Time of		-31	JUP	TER'S SA	TELLITE	s.		OCCUI	TATIONS	OF STA	RS BY TH	IE MOON	
gys of Month.	number of hours he- tween Sun-	Minntes the Day has in- creased since	Dayhreak, or beginning of Twilight.	Time Twilig Endic	ht		Eclipse			_ N	mes of the S	i i	Times	of disappes	arance A	t the dark or hright
the	rise and Sunset.	the Shortest Day,	or Twingitt.	Endo	· s ·	1st. Sat Emersion			. Sat. ersion.	- Na	imes of the s	Magni-	and re-	Star.	or the li	mh of the Moon.
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11311	o or our	NGES OF .	IIIE MOON	s of the onth.	M	EKCURY.	VEI	NUS.	MA	RS	JUPI	TER.	SAT	URN.	UR	ANUS.
gee), or		distance (Pe	distance (Agrigee), from t		Right Asceosic		Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North,	Right Ascension	Declina- tion North.	Right Asceosion	Decliva- tion South.	Right Ascension	Declina- tion North.
	Moon C QUARTER	5D.	1н. 42м. д .м 7 56 г.м	-	21h. 91 21 44		18h. lm 18 26	21° 38′ 21 47	3h. 1m 3 11	18° 50 19 30	6h.54m	23° 8′ 23 11	22h.55m 22 57	8° 55′ 8 42	0h. 56n 0 57	5° 20' 5 21



WINTER! still Winter! but cheered with occasional glimpses of such bright sunhine, and revealing now and then such beautiful patches of clear blue sky, that
we know Spring is somewhere at hand behind the clouds, and keeps withdrawing
the curtain that conceals her, to look down upon the earth, as if she were eager to
eturn. But Winter grasps not his icy sceptre with so firm a hand as he did in
Jamiary; the hleating of the young lambs alarms him; and the merry cawing of
the noisy rooks tells him that his reign is drawing to a close; for sometimes he
feels a rounded daisy stirring heneath his naked feet, though it is still invisible
to the human eye; and all these things warn the hoary, and bearded old Monarch
hat he must soon resign bis throne, to the heautiful young Queen, who only
awaits the opening of the flowers before she is crowned. Now and then he raises
"his old right arm," and compels us to confess his power; but the golden croccus
lazens his dim eyes, and the daisies grow larger in spite of his auger; the elder
outs out a few green buds, and the willows hegin to show their silvery cakins;
and while be sleeps, the sunshine is ever peeping out—signs which proclaim the
hour of his departnre is drawing nigh; for—

Shadows of the silver birch Sweep the green above his grave

On fine days, the cottage doors and windows are thrown open, and we hear once more the merry voices of children in the village streets; for the sweet Suushine who maketh all glad and innocent things his companions, hath heckoned them forth to play, though it he hut for the space of one hright brief hour. As you walk down the narrow green lanes and along the broad highways, you inhale the cheerful and refreshing aroma of the fresh earth, as it is turned up by the plongh-share; and, as the healthy smell is waited upon the hreeze, you might fancy that it had been scented by the hidden flowers which still lie asleep and sheltered, beneath the ridgy furrows, and sometimes, when—

Through the sbarp hawtborn blows the cold wind,

you hear the faint heating of a little lamh, that stands shivering beside the naked hedge, looking as if conscious that its troubles had already commenced, as if fearful that it should not he able to pick up a living in such a bleak, cheerless, and flowerless world. At intervals, the lark springs up; and, although he is carried far aside hy the strong wind, be holdly breasts the storm with his ruffled plumes, and tries a few notes to see how they will sound after the long silence of Winter- then descends again to nestle heside the little dalsies that are just beginning to see. Now and then, the hlackbird and throstle strike up a few notes from the

leafiess brake, then pause, with their heads hanging aside, as if listening in wonder that they are not answered by their former companions, whose sweet voices were wont to swell out the full-throated anthem of Spring.

In the ancient neighbourhood of the busy rookery, the work of Spring has already commenced. In the trees they are building and quarrelling, in the fields they are "scratting" and foraging from morning till night. You see them close upon the heels of the ploughman; they follow the footsteps of the sower; they are ever sailing downward in search of worms or insects, then returning again to their "old ancestral trees," with an additional beam for their house, and filling the whole air around with their low, dreamy cawing, which gives such a Springsonnd to the still flowerless landscape. sound to the still flowerless landscape.

the whole air around with their low, dreamy cawing, which gives such a Springsonnd to the still flowerless landscape.

Every time we walk abroad, we see the slow and sure progress which nature is making. First, a bud or two appears of a larger size; then we discover one already green; and it is wonderful, after a shower, and a day or so of sunshine, to witness the bulk to which the little ones have grown—though the last time we looked at them there was scarcely a sign to tell, that they would so soon display traces of their green beauty. The gooseberry-bush shows a dim glimmering of green, more like the reflection of a colour, than the real bue which it afterwards assumes; yet this grows bolder and brighter every day, and at last we find the full form of the leaf revealed, on a tender and tiny bud, which the sun has tempted to open. Winter, and the first dawning of Spring, afford the best opportunities of witnessing the rich effects produced by moss, lichen, fungi, or liverwort, upon the trees. Here we meet with the gaudy and mingled hues of the rich green, the glowing orange, the pale primrose, the silver grey, with browns of every tone, that go deepening down from dusky amber to the dark hue of the chesnut, until they sink into the jetty blackness which mantles the stem of the oak. Beside these, the dark green winding outline of the ivy is fully revealed, giving a Summer look to the trees it clothes, and trailing, here and there, in beautiful and slender lines, among their naked branches. The little water-runnels, which have also been silent and ice-bound during the Winter, now come tinkling down the steep hill-sides, and roll in pleasant murmurs through the dim green meadows, as if they were hurrying along in quest of the flowers. The little leaves which point out where the modest primrose will soon appear, are already visible; and in our walk through the woodland, we can discover the pale green visible; and in our walk through the woodland, we can discover the pale green blades which tell us that the blue-bells have already come up, and that ere long the ground will be covered with a hue bright and beautiful as the face of heaven; for every way we discover traces of that unseen hand which is busy with its silent work. You might fancy that a snow-flake still lingered here and there upon the meadows, until you find on a nearer approach that it is

The daisy scattered on each mead and down, A golden crest within a silver crewn.

You also perceive the cottagers employed in their little gardens, making preparations for the approach of Spring; the spade is brought forth from its hiding-place; seeds, which have been carefully preserved, are hunted up, and even a few of the earliest sown; while, in the garden fence, the little hedge-sparrow, not less industrious, prepares the nest which is to contain its "sky-stained eggs." Even the very changes of the weather, which seem for a time to cbeck these operations, are silently forwarding them. The snow that occasionally falls, warms and nourishes the tender buds; the winds dry up the over abundant moisture; mists, fogs, and rains, all bring their tribute to enrich the earth, and do His bidding, who gave us "seed time and harvest." The rank decay of vegetation—the exhalations that are ever arising—the insects that burst from their larvæ state—and the poor blind worms that burrow through and loosen the soil, are all doing their allotted work, and, though disregarded, are assisting man to prepare the soil, while prepare the soil, while

Surly Winter passes off Far to the north, and calls his ruffian blasts; His blasts obey, and quit the howling hill, The shatterd forest, and the ravaged valo; And softer gales succeed.

Those who are not accustomed to study the habits of birds, would conclude that it is difficult for them to survive in England during our hard winters, especially such as are called the soft-billed; but were they to watch their habits narrowly, they would perceive that, outhouses, stables, holes in old decayed walls, gate-posts, the stems of large hollow trees, spring heads, which scloden freeze, places where cattle are kept up and foddered in winter, all abound in food of various descriptions, suitable to their nature; such as insects in their aurelia state, flies and spiders that have concealed themselves until the cold weather is over, and numberless insects that abound under the layers of dead leaves. The vision of birds is extremely acute, and it is probable that whe we should not be able to discover without the aid of a microscope, is to them perfectly visible, and that they find food in the eggs of insects, &c., which we are totally unacquainted with.

feetly visible, and that they find food in the eggs of inscets, &c., which we are totally unacquainted with.

Amongst the few birds which sing at this season of the year, is the misselthrush, or, as it is called by the country people, the storm-cock, whose early song is considered to denote a tempest. Its favourite food is the berry of the mistletoe; and there is a superstitious notion that the seed of the berry of this curious plant, which was gathered with such solemn ceremony by the ancient Druds, will not grow until it has first been swallowed by this bird; a belief, which it is almost needless to state, is wholly erroneous. The song of no bird has called forth more discussion among naturalists than that of the misselthrush; some even asserting that it has no voice, saving the harsh predictive note which it utters before the approach of a storm. This, however, I believe to be the cry it makes when it is alarmed, or in pursuit of its prey; tor, if I err not, I have frequently heard it sing amongst old orchards in the midland counties in February, and that, although its song is much inferior to that of the thrush, or common throstle, it is loud, pleasing, and harmonions, nor do I think it seasy to mistake the bird, as it is nearly twice the weight of the thrush.

During the cold weather, the mole is busy working his way still deeper under-

it is easy to mistake the bird, as it is nearly twice the weight of the thrush. During the cold weather, the mole is busy working his way still deeper underground, for the further the frost penetrates, the lower he digs in quest of the worms which the cofd has driven so far down; these are its favourite food. In the north of England, it is still called the mouldi-warp, mole being a common expression for soil, and warp for the earth which is turned up. Thus, the silt, or mud which is left by the fide on the side of trivers, is invariably called warp; and newly-ploughed land, warp-land. I am thus particular in giving the full meaning to the word, as it is pure, unaltered Saxon; and I have no donbt that the mole was called the mouldi-warp, long before Aifred the Great sat upon the throne of Wessex. Those who are unacquainted with that curious structure called a mole-bill, have but a faint idea of the chambers and galleries, and courts, and streets, which branch out beneath the little hillock they so often meet with during a country ramble. The encampment of the mole is its hunting ground, its forest, its chase; in some one or another of these long, winding, underground avenues, it is sure to meet with prey; and the mole is a most persevering hunter, visiting his p. eserves many times during the day. It is always in excellent condition; and in the North, "fat as a mouldi-warp," is an old and

common saying. It is not only a great eater, but also a great drinker; and, although it is not more than five inches long, will not hesitate to attack cither a mouse, a bird, a lizard, or a frog. It will even prey upon its own species, when hard driven, as has been clearly proved, by placing two in a box, without a sufficiency of food. We consider that the experiments which were made by the celebrated naturalist, Le Court, have sufficiently proved that the mole is not bilind, although there is an imperfection in the development of the visual organ. The mole generally produces four or five young at a time, and even as many as seven have been found in one next

seven have been found in one nest.

The carrion-crows, which begin to build at the close of this month, vary greatly in their habits from the social-building and gregarious rooks; the former are regular pirates, ever keeping a sharp look-out from the mast-heads of the tall greatly in their habits from the social-building and gregarious rooks; the former are regular pirates, ever keeping a sharp look-out from the mast-heads of the tall tree-tops, and ready with their great black wings to hoist all sall in a moment, and to give chase to whatever they see passing; for, to use a homely and expressive phrase, there seems nothing either "too hot or too heavy for them." Let either a hawk or a raven attempt to board them, and they will fight to the death; and so higb were their pugnacious qualities estimated, when the cruel practice of cock-fighting was in vogue, that trees were often climbed, and the eggs of the carrion-crow taken away, and those of some hen which had been brought up in tompany with the most celebrated game-cock in the neighbourhood, were left in the nest to be hatched, under the belief that the young cocks thus produced possessed more courage, and proved the best fighters. The carrion-crow, unlike the rook, is a very gross feeder, and will prey upon any offal or decayed animal matter it may chance to alight upon. The wood-pigeon is an early builder, and its slight, open, slovenly nest, is often found with the two white eggs shiming through the ill-covered bottom, long before Spring has thrown over the naked branches its garment of green.

The starling is another of our early builders, and the following anecdote related by the Rev. Mr. Sladen, in the "Zoologist," is a strong proof of the reason, or instinct, which this bird possesses:—He states that one built under the eaves of a roof in the basin of a drain pipe, and that the young, in their eagerness to obtain food, fell out of the nest. One was killed; the remaining two he picked up, and placed in a basket covered with netting, which he hung up, near to the nest. The next morning one of these disappeared—the last one he carefully watched, and saw the old bird approach it with food in its bill; but, instead of feeding the little prisoner, she tempted it, by hunger, the sight of the food, and its attempts to reach her,

bery, to the very spot where she had also concealed the other young one, which had before been missed.

There is something very pleasing in looking upen the earliest flowers of Spring, in the snowdrop, the crocus, the first primrose, and the violet, that seem to stand upon the edge of Winter, coming, as it were, with timid and fearful looks, like "unbidden guests," who, instead of receiving a warm welcome, dread being driven over the threshold again by Winter; who sometimes claims to rule as host, although he hath already, in promise, given up possession to the sweeter-tempered Spring. The early flowers of Spring also bring with them sweet and sorrowful recollections; they are fraught with the memories of childhood and youth; they bring promise of brighter days, and we know that for a thousand years they have stood dreaming by the old waysides of England as they do now, for on them Time leaves not his grey foot-mark. The daisy that peeps forth at the end of February is the same, to look upon, as that which Chaucer worshipped, when, nearly five hundred years ago, he went forth, and knelt lowly by its side, to do "observance to the Spring."

Beneath the green mounds which bury the remains of many a grey old abbey, and once-stately eastle, the innocent daisy still whitely waves. Time, which has, ages ago, hurled down the holy shrine and the strong battlement, has no power over the humble flower that yet blows above the runned barbican and fallen keep. Though he hath levelled many a proud city to the earth, and dug the graves ofmany a stately temple, yet Spring has again visited the spots he left desolate, and thrown over them a beauty he is not permitted to destroy.

Time came again, and so did Spring;
The sp t cace more with flowers was strown;
Nor could be see a ruined thing,
So tall and thick the buds had blown.





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22	W	Castor souths 7h, 24m, r.m.	75	50	6 16	0	48	9	8	1 39	7	3		17		3 35	3 50	6 56	82
	T		2	EC	6 15	1	12	10 1						98	7/// 7/// 7///				
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	\mathbf{F}	Pollux souths 7h. 27m, r.m.	5	54	6 19	1	35	11 1	0	3 7	7 7	58		-		4 40	4 50	6 19	84
25	$S \mid$	Annun Lader Day	5	52	6 20	1	59	Mornin	ag.	3 53	8 8	23		20		5 10	5 25	6 0	85
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		[Pr. Geo. Will. b	9	4/	6 23	1	46	U S		5 29		58				6 20	6 40	5 23	87
	Tu	a Hydræ souths 8h. 55m r.M.	5	44	$6 \ 25$	3	9	1 4	9	6 19	10	51				7 5	7 30	5, 5	88
29	W	Regulus souths 9h. 30m. P.M.	.5	42	6 26	3	33	2 3	4	7 1	111	51		21		8 5	8 50	4 46	89
30		B Leonis souths 11h. 7m. P.M.	5	40	6 28	3	56	3 1	4	8 3	After	noon		2.5		9 30	10 10	4 28	90
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01.	- "	- 1	9	3/	0 30	4	19	3 5	0:-8	8 56	5 2	10	Service	الكتفيقان	sumsum various (IIII)	10 33	11 30	4 10	15
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MARCH.

THE SUN is in the sign Pisces till the 20th, on which day, at 11h. 16m. A.M., he enters the sign Aries (the Ram), and Spring commences.

On the 1st day he is 94,200,000 miles from the Earth. He rises and sets on the 1st at E. hy S. and W. hy S. nearly; on the 21st, he rises E., and sets W.; and, on the last day, he rises midway between the E. and E. hy N., and sets midway between the W. and W. hy N. He souths on the 1st, at 12m. 32s.; on the 15th, at 9m. 2s.; and, on the last day, at 4m. 10s. hefore noon (common clock time), at an altitude of 303, on the 1st, of 36° on the 15th; of 38, on the 21st; and of 42, on the 1st day.

On the 21st day, at 6h. A.M., he is on the Equator. He is eclipsed on the 5th, hut it is not visible in England.

The Moon rises hetween midnight and noon from the 1st to the 13th; hetween noon and midnight from the 15th to the 25th; and after noon from the 26th. She sets between midnight and noon from the 11th day.

She is near the houndary of Sagittarius on the 1st; in Capricornus on the 2nd;

in Aquarius on the 2nd, 3rd, and 4th; in Pisces on the 6th; in Cetus on the 7th; Pisces on the 8th; near Aries and Cetns on the 9th; in Tanrus on the 10th, 11th, and 12th; in Gemini on the 13th and 14th; in Cancer on the 15th; in Leo on the 16th, 17th, and 18th; in Virgo on the 19th, 20th, 21st, and 22nd; in Lihra on the 23rd and 24th; in Ophuchus on the 25th and 26th; near hoth Sagittarius and Aquila on the 27th, 28th, and 29th; in Capricornus on the 30th; and in

Aquarius on the 31st.
On the 1st day she is situated 17° S. of the Equator, and souths at 21° above On the 1st day she is situated 17°S. of the Equator, and souths at 21° above the horizon; she is moving northward; is on the Equator on the 6th, and attains her greatest elevation on the 12th, heing 56° above the horizon when she souths; she is on the Equator again on the 19th, and is at her lowest point on the 27th, heing 20° altitude when she is due south. She is new on the 5th, and an Eclipse of the Sun takes place, hut invisible in England; she is full on the 19th, at which time a total visible Eclipse of the Moon takes place. (See helow.)

She is near Venus on the 2nd; Saturn on the 5th; Mercury on the 6th; Mars on the 11th; Jupiter on the 13th.

The Eclipse of the Moon hegins at London at 7h. 16m. P.M., and its successive appearances are shown in the accompanying diagrams.

APPEABANCE OF THE MOON DURING HER ECLIPSE PRECEDING TOTALITY



At 7h. 48m. P.M

At 8h. 21m. P.M. the Moon will be totally obscured; the middle of the Eclipse will be at 9h. 12m., and at 10h. 3m. P.M. she will begin to appear.

The following diagram shows her successive appearances after the total Eclipse.

The end of the Eclipse will he at 11h. 8m. P.M. From the preceding account is will he seen that, although the moon is full, she will not shine at all for an hour and forty-two minutes. This fine Eclipse will be visible to the inhabitants of Europe, Asia, and Africa, and to parts of America and Australia.

The following times of the heşiming and ending of this Eclipse at various places, expressed in the mean time of each place, may be found useful:—

H. M. H. M. At Altona the Eclipse begins at 7 55 p.m. and ends at 11 48 p.m.

Berlin

Berl 0 2 a.m. of the 20th. 0 17 a.m. of the 20th. 8 8 8 Breslau 24 \$5 Copenhagen at midnight. Dorpat Göttingen 11 55 p.m. ,, FI 48 " Leipsic

APPEARANCE OF THE MOON DURING HER ECLIPSE, FOLLOWING TOTALITY.



At 10h. 19m. P.M.

At 10h. 35m. P M

At 10h. 51m. P.M.

						M.				н.				
١t	Munich t	he	Eclipse	begins	at 8	2	P.M. а	nd (ends a	t 11	55	P.M.		
>>	Padua		1)	,,		3		19			56			
	Paris		"	,,	7	25		3.		- 11	18			
**	Petershui	rgh	19	25	9	17		19		1	10	A.M.	of the	20th.
17	Rome		11	59	8	5		22				P.M.		
11	Stockholn	n	29	39	8	28		59		0	21	A.M.	of the	20th.
	Vienna		•••	**	8	21							of the	

MERCURY is in the constellation Pisces till the 21st; in Aquarius from the 21st

MERCHAY is in the constellation Pisces till the 21st; in Aquarius from the 21st to the 28th; and in Pisces again after the 28th.

He sets on the 1st, at 7h. 22m.; on the 7th, at 6h. 57m.; on the 10th, at 6h. 35m.; and on the 14th, at 5h. 57m.; these times follow that of the Sun settinghy 1h. 43m.; 1h. 8m.; 0h. 41m.; and 0b. 4m. respectively. He rises on the 15th, at 5h. 48m.; on the 22d, at 5h. 21; and on the 31st, at 4h. 59m.; and these times precede those of the Sun rising hy 27m., 39m., and 40m. respectively. Therefore, the period of time hetween the 1st and 10th is favourable for observing the Planet after sunset; and the period of time after the 20th is less favourable for observing the riod of time netween the 1st and 1oth is tavolitatine to observing the Flatter after smeet; and the period of time after the 20th is less favourable for observing him before sunrise. Till the 13th he will set near the W. point of the horizon, and at the latter part of the month he will rise near the E. point of the horizon. He is stationary at the heginning, moving westward at the middle, and stationary again among the stars at the end of the month. He is in inferior conjunction with the Sun on the 13th, in the morning. On the 17th, this Planet and Saturn are near teachers. (See their Bight) Associates before.

Sun on the 13th, in the morning. On the 17th, this Planet and Saturn are near together. (See their Right Ascensions below.)
VENUS will be in the constellation of Capricornus till the 16th, and in that of Aquarius from the 17th to the end of the month, and rises near the S.E. by E., on the 1st, at 5h. 29m., A.M.; and the 1st, at 5h. 19m., A.M.; and, on the 31st, at 4h.57m., and at 10h.17m. A.M., at the altitude of 20° on the 1st; 24° on the 15th; and 30° on the last day. She is near the Moon on the 2nd. Mars will be in the constellation of Taurus throughout the month. He is an evening star, and sets near the N.W. by N., till the 15th, and midway hetween N.W. by N. and the N.W., after the 16th; at 1h. 34m. A.M., on the 1st; at 1h. 19m. on the 15th; and all th. 4m., on the last day. He souths at an altitude of ahout 62° during the month; on the 1st, at 5h. 25m. P.M.; on the 15th, at 5h. 2m. P.M.; and on the last day at 4h. 39m. P.M. He is near the Moon on the 11th, and ahout the middle of the month he is situated a few degrees N. of Aldeharan.

Jeptice Will be in the constellation Gemini throughout the month.

JUPITER will he in the constellation Gemini throughout the month.

JUPITER WILL BE IN the constellation Gemini throughout the month. He is visible through the greater part of the night: he rises somewhat hefore noon, and sets at the N.W. by W. on the 1st, at 4h. 25m. A.M.; on the 15th, at 3h. 3 m. A.M.; and on the 31st, at 2h. 32m. A.M.

He souths at an altitude of 619 every day; on the 1st, at 8h. 7m, p.m.; on the 15th, at 7h. 12m. p.m.; and on the 31st, at 6h. 13m. p.m. He is stationary among the stars, heing at the same distances from Castor and Pollux as at the end of February till towards the end of the month, at which time his motion is Eastward among them. He is near the Moon on the 13th.

SATURN will be in the constellation Pisces. He sets on the 1st, at 5h, 54m. p.m., heing 15 minutes only after the Sun has set; on the 4th, hoth the Sun and this Planet set at the same time; and from this time to the end of the month, he sets hefore the Sun. His times of rising precede those of the Sun rising by a few minutes only, so that this month is unfavourable for observing this Planet. He minutes only, so that this month is unfavourable for observing this Planet. He souths on the 15th day, at 11h. 41m. Am. He is near the Moon on the 5th. His ring has become very small.

Days of the Month.	hours be- tween Sun-	Number of hours and minutes the day has in- creased since the Shortest Day.	or heginning	Time o. Twilight ending.	JUPITER'S S Eclips 1st Sat. Emersion.		OCCULTATION Names of the Stars.	ONS OF STARS BY THE M	At the dark or bright limb
1 6 11 16 21 26 31	H. M. 10 51 11 10 11 31 11 53 12 13 12 33 12 53	H. M. 3 6 3 25 3 46 4 8 4 28 4 48 5 8	H. M. 4 55 4 43 4 32 4 21 4 7 3 54 3 41	H. M. 7 32 7 40 7 50 7 58 8 9 8 19 8 30	D. H. M. 1 8 55 P. M. 8 10 50 P. M. 16 0 46 A. M. 17 7 15 P. M. 24 9 10 P. M. 31 11 5 P. M.	D. H. M. 5 10 0 P. M. 13 0 36 A. M. 3rd. Sat. 15 8 20 P. M. 22 9 1 P. M. 23 0 29 A. M. 30 1 2 A. M.	111 Tauri Lamhda Geminorum Omicron Leonis m Virginis	6 12 1 8 A. M. 4 14 1 49 A. M. 14 2 20 A. M. 4 16 6 2 P. M. 16 7 12 P. M. 5 12 1 10 16 P. M. 21 11 10 P. M.	Dark Dark Bright Dark Bright Bright Dark

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TIMES OF CHA					,	ays of the Month.		MERC	URY.	I	RIGHT ASCENSION VENUS					ND DE	ECI	JUP		NETS. URN.	URANUS.			š			
And when she is at her greatest distance (Apo- gee), or at her least distance (Perigee), from the Earth in each Lucation.							Ri	ght nsion	Dec aa ii in North.		Right	Deci tic Sor	n	Ri	ight ension	Declin tion North		Right Ascension	ti	lina. on rth.	Righ		Declina- tion South.	101	ight ension	42.	lina- on rth.
NEW MOON FIRST QUARTER FULL MOON	::	5p 12 19	, 1 H. 4 9	. 17M 41 11	P.M. A.M. P.M.	6		48m 46 33	1° 27 2 11 1 0	20	1. 29m 54 18	18° 17 16	55 ⁷ 37 7	4h. 4 4	2m 14 26	22 5	5' 55 23	6h. 46m 6 46 6 46	23° 23 23	20	23h. 23 1 23 1		7° 35' 7 21 7 7	1h 1 1	. lm 2 3	5° 5 6	~ .
LAST QUARTER PERIGEE APOGRE		28 7 22	1 1 2	19	A.M. A.M. P.M.	16 21 26	23 23 23	17 5 3	1 23 3 50 5 31		43 6 30	14 12 10	26 34 34	4 4 5	38 50 2	24	18 9 27	6 47 6 47 6 49	23 23 23	19	23 1 23 1 23 1	7	6 53 6 39 6 25		5 6	6 6	7 13 19



March is the first month that treads upon the flowery border of Spriog; it is the beginning of that sunny season which again brings back the birds to our green old English woods, and calls forth the sweet buds from their hiding-places in way-side banks and upland leas, hedge-girded lanes and broad sweeps of meadow land; where the lambs are already trampling upon the daisies, while high above the lark "at Heaven's gate sings." What a burst of music will there, ere long, be in the groves and copses! What a variety of "silver-throated singers" are already on their way to join the great Spring-band, whose melody will awake the echoes of our flower-haunted woods! For now we may exclaim with Solomon, "The Winter is past—the rain is over and gone—the flowers appear on the earth: the time of the singing of birds is come, and the voice of the turtle is heard in our land."

heard in our land."

How cheering to hear neighbour greet neighbour, over the little garden-fence, as they exclaim, "Oh! what a lovely Spring-day this is!" To walk forth and hear the gentle murmur of the bee, and to see it settling among the few early flowers which have already opened! To notice the green leaves growing longer and broader every day! and, while the village clock schiming six, to see the red round sun rising np above the green-shouldered hill! The very stream seem as if they had broken forth into song, and were in haste to tell every flower that is asleep upon their banks, it is time to awaken—that birds are building in the bushes they have hurried past—and the small fry chasing each other around the smooth pebbles they have murmured over.

The dry winds of March come strong and thirsty, and drink up the dregs which Winter has left in the cup. But for the brisk breezes which accompany this month, many of the seeds and roots that have remained in the earth would decay and rot; and the bnds, if not hardened by the nipping blast, would blow before they had retained a firm and deep hold npon the stem. If the weather is mild, the elder, in favourable situations, will by the end of the month be covered with leaves, and wear quite a green and summer-like livery; and under the shaded hedge-row the golden celandine will be found in flower, beside that modest nun, the pale-faced primrose, the smell of which is so faint, though sweet, that it is, perhaps, the most delicate fragrance of all the flowers. Under their canopy of broad rounded leaves the violets are also discovered, betraying themselves by their own pleasant smell, which every vagrant breeze seems to delight in exposing—as if the wind had but little more to do than blow aside the old withered leaves, and carry away the healthy perfume. Although these flowers generally blow on until April, yet they may often be found at the close of a mild March month. The anemone, too, that bows its beautiful sliver-grey bell to every breeze, and the leaf of which is of the most exquisite form, now carpets the woodland; and no further off from London than the wood above Dulwich, it may be found in countless thousands. Equally near to the great Metropolis of England, the wild blae-bell waves and grows; and children may be seen, about the lanes near Camberwell, returning with handfuls of these early flowers, which they have travelled no far-

SHAKSPERE.

ther than the end of Lordship-lane to gather—but little more than an hour's journey, for a good walker, from the busy stir of Cheapside.

Now the forests ring with the heavy blows of the woodcutter's axe, and the bark-peelers are busy at work; and from the chips, the bark, the saw-dust, and the rising sap, there comes streaming upon the air the most healthy and cheering aroma that floats over the earth. It neither resembles a bed of flowers nor a hay-field, nor can it ever be inhaled anywhere but in the woods where such healthy labour is earried on. There is something very primitive and picturesque in this forest labour—we can imagine no employment more 'mcient—from the time when the first early settlers, the old Cymry of Britain, landed upon our island, and called it "The Country of the Sea Cliffs," hewed down the trees, and built hemselves rade huts in the gloomy old woods, which the wolf, the wild boar, the maned bison, and the antiered stag, had hitherto inhabited ;—even from that remote period may the occupation of the woodman be dated. We watch him at his work, and see the giant oak, that will ere long bear the thunder of the British cannon to some foreign shore, fall prostrate with an awful crash—loud enough to startle every Dryad, that startle every Dryad, that

Haunted spring and vale, edg'd with poplar palo, With flower inwoven, tresses torn, In twilight shades of tangled thickets mourn.

Nor is it possible for a healthy man to inhale this delightful aroma, or watch

Nor is it possible for a healthy man to inhale this delightful aroma, or watch these hardy foresters at their work, without feeling almost as strong a temptation as they do, to taste the contents of their baskets, and drink from the huge stone bottles which they are ever lifting np, with bare, brawny arms, to their lips; for in such scenes as these, wholesome and homely hunger is to be found. While rambling through the woods in a fine snnny day, at this season of the year, the snake may often be seen, basking on some dry warm bank, having quitted its Winter quarters, and come out from among the dead leaves, or the roots of the tree under which it had so long slept. It will, however, generally be found in the neighbourbhood of a water-course; and woe be to the mice, birds, or lizards that first fall in its way, after so long a fast! The snake is an expert swimmer, carrying its head beautifully erect, as it glides rapidly through the water, easy as an eel. The skin which it casts off may sometimes be found turned inside out, among the thorns of a furze-bush, or in the entangling brambles of the nnderwood. The viper, which is the only venomous reptile that is found in our English forests, is not so common as the snake; and, when met with, is always in a hurry to escape. It is a question open to much doubt, whether any one ever yet died through the bite of a viper:—if a small portion of ammonia is swallowed, and the wound rubbed over with oil, there is but little to be dreaded from the fangs of this reptile.

Amid all the pleasant out-of-door pictures which the hand of Spring produces, not one excels that of a daisled field, in which is seen the 'snow-white lambs at play. There is such a Spring-sound about their bleating!—it is much more plantive and innoceut than the deep baa they give utterance to in the height of Summer. How amusing to watch some little long-legged woolly fellow, that has lost his dam! How like a child he acts, that has missed its mother, running here and there, with a low plaintive cry, and not

mother could have done more, after having endeavoured, but in vain, by her own exertions, to rescue her child from danger?

Bloomfield, after giving a beautiful picture of young lambs trying their speed with each other, down the slope and up the hillock, describes them as stopping to gather breath for a few moments, yet so eager to pursue their play, that—

A bird, a leaf, will sot them off again;
Or if a gale with strength unusual blow,
Scattering the wild-bird roses into snow,
Their little limbs increasing efforts try."

There are few places in England that wear a more delightful appearance than

There are few places in England that wear a more delightful appearance than the meadows near Nottingham at this season of the year, many acres of which are covered with the lidac crocus; and there are, I believe, but few spots in our island, where this early spring flower is found wild in such profusion. And it is a pleasant sight to see the little children "todilu" from the meadows, with their wicker baskets filled with crocuses and daisies, or to watch their actions while gathering them—how one will throw itself full-length among the flowers, and stretching out its little bands, attempt at once to grasp all that are within its reach; while another, equally happy, with its long hair blown back, sits apart, singing to itself, and strewing the Illac petals about its feet in very wantonness. In a wood, near this neighbourhood, primroses were found in flower on New Year's Day, by one of those humble poets, who goes "crooning to himsel" by rural hedgerows and greenwood sides; and the beautiful thought awakened by the discovery of these early dangbters of Spring, huddled together in the lap of Winter, must be our apology for introducing the following eight lines, written on the occasion by Samuel Plumb, of Carlton: casion by Samuel Plumb, of Carlton:-

l Plumb, or Carrion.—
Old White came with flerce destructive sweep,
And shook the woods, and turned the green leaves sere,
When, as if wearied in his wild carrey.
He paused awbile, and couchant seemed to sleep:
Forth from a southern covert, waim and deep,
Camo Spring, and looked upon his front austere,
And lightly stept about like one in fear;
And where sbe trod, the flowers began to peep.

The poet concludes his beautiful sonnet, by stating that he took up the flowers and gave them to a fond and sorrowful mother, who planted them over the grave of a beloved child.

What a different appearance the lanes and highways now present to that which we pictured in January. You see the plougbboy scated sideways on the well-fed horse, the harness jingling at every step, as with the whip drooping idly over his shoulder, and his napless hat placed jauntily aside, he whistles and sings, alternately, some rustic lay, about the "Jolly Ploughboy, who wouldn't be a

King." You see the little butcher-boy in his blue frock, followed by his dog, a

King." You see the little butcher-boy in his blue frock, followed by his dog, a villianous-looking mongrel; now urging on the three or four lambs he has driven from the white farm house in the valley; now pausing to peep into the hedge to see if he can discover the nest of a hedge-sparrow; anon, giving a whoop and a hallo, which is often accompanied by a heavy stone, hurled with all his might, at the flock of rooks who are busy breakfasting in the ploughed field. The carrier's grey titled cart comes rocking slowly along between the budding hedge rows, and you see the village dame seated in front, carrying to the next town her little produce of new-laid eggs and home-made butter, and calculating to herself, how long it will be before she travels on the same road with her baskets heavily laden with the first fruits of her carefully tended garden.

The wryneck, a beautifully marked bird, may frequently be seen at the end of this month busily foraging for food, amongst the ant-hill, and to this the insects instantly adhereand are easily and greedily swallowed. The little willow-wren, hay-bird, or ground-wren, as it is called in different parts of England, also makes its appearance about this period. It builds a domed nest, leaving a small opening near the top by which to enter. It lays from six to seven small white eggs spotted with dusky pink at the larger end. This beautiful nest is composed of moss and dried grass, wearing outwardly a neat oval shape, while the inside is carefully lined with the softest feathers. It generally builds in the lole of a bank or at the foot of a tree or bush, often under the hollow roots, and sometimes, though we believe very rarely, its nest is found in a low bush. Chaffluches, which remain with us all the year, may now be seen in the fields where the sower has cast his seed. In sheep-walks and dry aplands the stone-crrlew is busily engaged looking for insects and worms; this bird builds no nest, but lays its two light-brown coloured and blotchy eggs upon the bare ground, generally

from danger.

from danger.

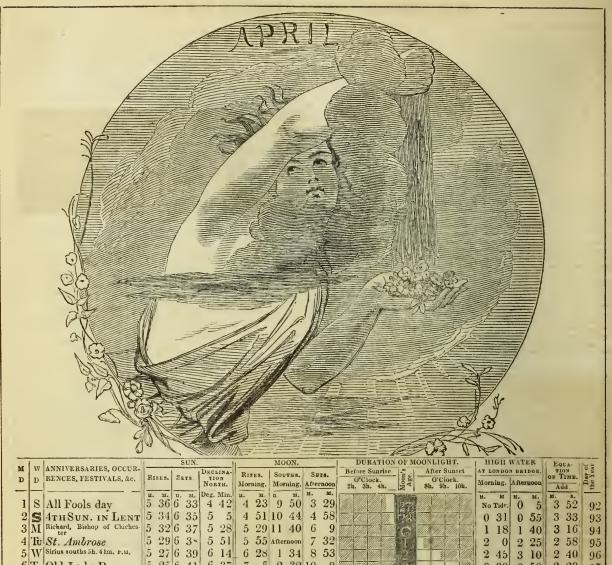
To a lover of nature it is an agreeable study to watch the habits of birds, to note down, like Gilbert White, ot Selborne, their incomings and outgoings, beginning with the date of when they first appear in Spring, and are last seen before their departure in Autumn. From the earliest ages have the migration of birds attracted the attention of man. We find the turtle, the swallow, the crane, and the stork mentioned in the Holy Bible, in the book of Jeremiah, as "observing the time of their coming," and Solomon marks tho seasons by the return of the singing of birds. Some come to build and bring forth their young—they then depart until the following Spring—others visit us in the Winter, and as the fine weather approaches disappear, "each knowing their appointed time." The swift seldom stays with ns longer than while its young ones are enabled to fly well—the swallow has been known to leave a late brood to perish in the nest when they have not been ready for migration, so strong has been the impulse in well—the swallow has been known to leave a late brood to perish in the nest when they have not been ready for migration, so strong has been the impulse in the parent-bird to depart. Without being beholden to man for either focd or home, without any preparation, saving the momentary act of spreading out their wings, they set ont, and return from their long journeys—pass over mountains and seas, cheer us by their songs and delight us by their beauty, yet ask for no return from our hands. They are at once the inhabitants of the earth, the air, and the water, having all the elements at their command, without the incumbrance of that heavy machinery which man is compelled to have recourse to. cumbrance of that heavy machinery which man is compelled to have recourse to. In their songs we discover the sounds which indicate sorrow and delight, love and melancholy, the low sad wailing of grief, and that happy gladness of the heart which seems ready to burst for very joyousness—for such tones can the fanciful mind gather from their varied lays—such emotions do these "little angels of the trees" awaken in susceptible hearts. For our part, we should almost as soon think of shooting at a little child as it sat singing to itself, and playing with the lapful of flowers it had gathered, as we should at a sweet song bird perched upon a spray, and filling the wide green vallies with its silver music. Listen to what an old poet, who was contemporary with rare Ben Jonson, has said of the delight he felt in listening to the lays of these little choristers. He was wandering beside a river, and fancied that the first bird he heard was childing the ripples for the murmuring sound they made, which seemed to drown the echo of his own sweet song, when of his own sweet song, when

there seemed another in his song to toll, That what the fair stream said he liked well; And going further heard another too All varying still in what the others do; A little thence, a fourth, with little pain Conned all their lessons, and then sung aga'n;

So numberless the songsters are that sing in the sweet groves of the too caroless print, That I no some could the hearing loss of one of them, but straight another rore, And perching defuly on a quaking spray Nigh tired herself, to make her hearer stay.

— Brownes Britannic's Postorals.





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D		RENCES, FESTIVALS, &c.	Ris	ES.	SETS.	DECLI		RISES.	So	UTBS.	SE	TS.	O'C1		- B &	O'Clock.		1	or Time.	N N
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11	T_{tr}	Regulus souths 8h. 40m P.M.	5	166	3 49	8 9	28	11 3	6 7	10	1	58	3////		100		7 35	8 10	0 59	102
12	W	A Leonis souths 10h. 16m. P M.	5	13 (_		50	Afternoo		58	1	34	- 30 (11 (I)				8 50	1 - 1	0 43	
10	7.7	Spica Virginis souths 11h. 48m.			_			- 4	. '				2///				1	1	1	103
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16		Term ends	5	3 (6		6 16	54		19			5.5		11		0 18	
10	27	PALM SUNDAY, or Passion Sunday—the first	~								1 7			<u> </u>			4			107
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24	M	EASTER SUNDAY	4	1715	7 10	13	0	Morning		14	8	1			21		5 15	1	2 1	115
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27	TH	Arcturus souths 11h. 48m. p.m.	4 .	41 2	7 14	13	58	1 48	8 6	46	11	51			24		7 40	8 15	2 31	118
28	F	Length of day 14h. 37m.	4	30	16	-	7	2 2	- W	38	1 -	- 1	2//// 3		25		0 0		2 41	
	0	Leugth of night 9h 47m.	1	00 1	10							noon	1111111111	_	26		9 0		1	119
29	0		4	3/ /	18	14 3	35	2 5	1 8		_	21			50		10 15	10 55	2 49	120
30	5	Low Sunday	4	35/7	7 20	14 8	54	3 2	1 9	23	3	29			2 /.		111 25	11 55	2 58	121

APRIL.

THE SUN is in the sign Aries till the 19th, on which day, at 11h. 28m. P.M., he

The Son is in the sign Aries till the 19th, on which day, at 11h. 28m. p.m., he enters the sign Taurus (the Bull).

On the 1st, he is 95,020,000 miles from the Earth. He rises on the 1st, 5° S. of E. by N., and sets \$0. of W. by N.; on the 8th, he rises E. by N., and sets W. by N.; and on the 28th, he rises E.N.E., and sets W.N.W.

He sonths on the 1st, at 3m. 52s. after noon; on the 14th, at 12s. after noon; on the 15th, at 8s. before noon; and on the last day, at 2m. 58s. before noon; at an altitude of 43° on the 1st, of 48° out the 15th; and of 53° on the last day.

On the 3rd he is eelipsed, but the eelipse is not visible 4n Euglaud.

The Moon rises between 4h. A.M. and noon, from the 1st to the 11th; between noon and midnight, from the 13th to the 23rd; and after noon, from the 25th. She sets between 3h. p.m. and midnight, from the 1st to the 17th; and between midnight and noon, between the 9th and the 27th.

She is in Aquarius on the 1st; in Pisces on the 2nd; Cetus on the 3rd; Pisces on the 4th; Cetus and Aries ou the 5th and 6th; Taurus on the 7th and 8th; Gemini on the 9th and 10th; Cancer on the 11th and 12th; Leo on the 13th, 14th, and 15th; Virgo on the 16th, 17th, and 18th; Libra on the 19th and 20th; Ophinehus on the 21st, 22nd, and 23rd; near Sagittarius and Aquila on the 24th and 25th; Capricornus on the 26th; Aquarius on the 27th and 25th; Aquarius and Pisces on the 29th; aud Cetus on the 30th.

On the 20d she is on the Equator; attains her greatest elevation on the 9th, at which time she is at 56° altitude, when duo south; is on the Equator again outhe 16th, moving S.; and is at her lowest point on the 23td, passing the meridian at 20° above the horizon; and she is a third time on the Equator on the last day.

dian at 20° above the horizon; and she is a third time on the Equator on the last day.

day.

She is new on the 3rd; and an eclipse of the Sun takes place, but invisible here; she is full on the 18th, but without an eclipse.

She is near Veuus on the 1st; Mercury and Saturn on the 2nd; Uranus on the 4th; Mars on the 8th; Jupiter on the 10th; and Saturn on the 29th.

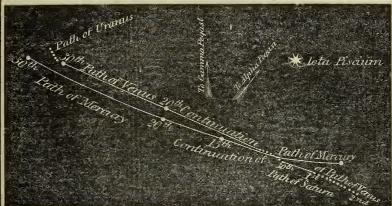
MERCURY, from the 1st to the 17th, is in the constellation of Fisces; between the 17th and the 27th, in that of Cetus; and in Fisces again, after the 27th.

He rises nearly due E. throughout the month; on the 1st, at 4h. 57m.; on the 18th, at 4h. 35m.; and on the 30th, at 4h. 12m.; and these times are respectively 39m., 30m., and 23m., before the times of the Sun rising. The month is not favourable for observing him. He is moving Eastward among the stars; and is at his greatest W. elongation on the 9th.

volume for observing min. He is moving passward among the stars, and is at his greatest W. elongation on the 9th.

The Planets Mercury, Venus, and Saturn are near together on the 5th, 6th, 7th, 8th, 9th; and the two former continue together all the month, and on the 28th are near Uranns. These Planets may be seen rising near the East, shortly before Sunrise: and their relative positions and motions are shown in the annexed cut.

PATH OF MERCURY, VENUS, SATURN AND UBANUS IN APRIL, 1848



Scale, 10 degrees to one much.

VENUS will be in the constellation Aquarius on the 1st and 2nd; in that of Pisces, from the 3rd to the 18th; and in Pisces and Cetus, alternately, from the 18th to the end of the month.

Time of

Length of Day, or

Number of

hours and

She is a morning star, and rises nearly East, at 4h. 55m., on the ist; at

4h. 30m., on the 15th; and at 4h. 2m., on the 30th. She souths on the 1st, at 10h. 18m. A.M.; on the 15th, at 10h. 26m. A.M.; and on the 30th, at 10h. 35m. A.M., at the allitude of 31° on the 1st; of 37° on the 15th; and of 43° on the last day. She is near the Moon on the 1st, and Mereury and Venus continue near each other during the remainder of the month. (See

Merenry, above.)

The telescopic appearance of the Planets, whose paths are represented above, during this month, are exhibited in the following engraving.



Scale, 40 seconds of arc to one inch.

MARS will be in the constellation of Taurus till the 15th, and in that of Gemini from the 16th to the end of the month.

He is an evening star, and sets midway between the N.W. by N. and the N.W., on the 1st, at 1h. 5m. A.M.; on the 15th, at 0h. 47m. A.M.; and on the 30th, at 0h. 26m. A.M. He sonths on the 1st, at 4h. 38m. P.M., at an altitude of 65°; on the 15th, at 4h. 18m., at an altitude of 65°; and about this time he attains his greatest North declination during the year (See below); and, therefore, this meridian altitude is the greatest during the year. He souths on the 30th, at 3h. 58m. P.M., at the altitude of 63°. He is near the Moon ou the 8th, and he is crossing the Milky Way during the month.

JUPTICE WILL BE ALM; and on the 30th, at 0h. 47m. A.M.; he rises at about the middle of the month, at about 9h. A.M.

He is an evening star, and sets at the N.W. by W. on the 1st, at 2h. 28m. A.M.; on the 15th, at 1h. 39m. A.M.; and on the 30th, at 0h. 47m. A.M.; he rises at about the middle of the month, at about 9h. A.M.

He is near the Moon on the 10th. The Plauet Mars is situated some distance to the right of Jupiter.

Saturan will be in the constellation Pisses. He rises mid way between the E. and E. by S. on every day; on the 1st.

Saturan will be in the constellation Pisses. He rises mid way between the E. and E. by S. on every day; on the 1st.

SATURN will be in the constellation Pisces. He is suitable for a short time before the Sun rises. He rises mid way between the E. and E by S on every day; on the 1st at 5h 10m A.M.; on the 1sth, at 4h 18m. A.M.; and on the 30th, at 3h .21m. A.M. He souths on the 1sth day at 1th. 53m. A.M.; snises at about 3h. r.M. He is near the Maon on the 2nd. During this month the ring of Saturn becomes invisible, and continues so till the end of the year, with a very slight exception about the beginning of Sentember. The intersection of the plane of the ring. September. The intersection of the plane of the ring, and of the Eeliptic, is in 170° and 350° of longitu e and eonsequently the ring lessens when Saturn is near either or these points. In this year the loogitude of Saturn is 350° on the 20th of July. On the 22nd of April the plane of the ring of Saturn will pass through the centre ef the Earth, or, in other words, we are looking at the edge of the ring only, and it is invisible to us. (See the LLUSTAATED LONDON ALMANACK for the year 1846, in the month of October.)

Uranus during this month rises, souths, and sets, very nearly at the same times as the Sun, and therefore he

cannot be seen.

The Moon.—In consequence of the rotation of the Moon

OCCULTATIONS OF STARS BY THE MOON.

on her axis, the changes in her appearance are very rapid; in the course of a few hours, brilliant points, or islands of light in the dark part of the Moon, become extended chains of mountains, or ranges of lofty hills. These changes are perpetually progressing, and it is highly improbable that any two persons, unless in company, would obtain exactly the same view of any particular region of the Moon. Her best views may head the same view of any particular region of the Moon. be obtained when she is between five and twelve days old.

Mon	hours be-	day has in-	or beginning	Twilig	ght		Eclips			21		1.4		-0 11		t the dark		
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TIMES	OF CHAI	NGES OF T	THE MOON,	th.	MER	CURY	VE	VUS.	MAR	S.	JUPI	TER.	SAT	URN.	URA	INUS.		
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gee), or	at her least	distance (Pcr.	igec), from th	e al	Right Ascension	C-n41-	Right Ascension	South	Right Ascension	tion	Right Ascension	tion	Right Ascension	tion	Right Ascension	tion		
	Earth in each Lunation					North	Ascension	North	Ascension	North.	Ascension	North.	Adctions	South.	Ascension	North.		
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1 18 N 6 9 25 0 7 3 41 6 22 24 55 7

JUPITER'S SATELLITES.



Uron the daisied green of April Spring hath at last planted her sunny eet, and many a sweet flower has stepped forth to form a couch for her fair form to recline upon. The leaves have grown longer to shelter her from the silver-footed showers, and many a bird that had made its home in a foreign land, has returned to welcome her with its song. Her eyes are blue as her own April skies; her cheeks dyed with the delicate crimson of apple-blossoms; her white and blneveined neck, beautiful as a bed of lilies-of-the-valley, intersected with blowing violets, while her silken hair streams out like her own acacias, that throw their gold and green upon the breeze. Around her brow is twined a wreath of Mayblossoms—pearly buds, but yet unblown. High above her head the sky-lark soars; in the lowly briske the linnet warbles; from the tall tree tops a hundred birds are singing; and she comes with music above, below, and around her. The primrose-coloured sky, the insects that hum and wanton in the air, the flowers that rise above the bladed grass, the bursting buds that are daily peeping out among the trees, all proclaim that Spring is come again.

But high above all, is heard one voice, that which the little child with its hand over its innocent forehead, to shade off the sunshine, endeavours to mock; and every hill, and wood, and vale, and river, rings out, loud and clesr, like the tone

of a silver bell, the piercing note o. the Cuckoo. The school-boy loiters on his way, and forgets his hard task, while he tries to imitate her voice; and grey-headed old men, bow-bent with age, uplift their wrinkled hands to their dull ears and listen to her song. Even the superstitious old grandam thrusts her hand into her huge, patched pocket, when first she hears that sound, and presses the silver coin between her fingers that she may have good luck all the rest of the year. Let us not seek to stir a leaf in that dim grove, which is hung with these old twilight superstitions.

Now is the time for the angler to be up and out by the breezy river-sides, where the tall green villows are ever swaying to and fro, and the shadows of the trees quiver and twinkle in the water, while the sunshine streams down through the network of half-expanded leaves, and chequers the ripples below, with evermoving shadows of dusky purple and molten gold. Far out, beyond the rapid eddies, may ever be heard the fish rising and falling with a solemn plunge, and forming circles npon the water that lengthen and broaden, until the remote tripples of the expanded ring break upon the reedy shore. What numbers of calm nooks that lie like sleeping mirrors, may be found on a clear April morning between the bending embankments, at the corners of jetties, on the little table-land with

its solitary tree, which, but for its narrow neck, fieldward, would be an island, and by the deep, precipitious sides of which, the largest of the finny tribe love to shelter. Dark, cloudy pools, which the perch, the carp, and the roach frequent; haunts of the chub and barbel, and broadsided bream, whose very names call up pictures of bridges, and mill-pools, and sluices, and grey old flood-gates, opening under gloomy arches, where the long-jawed and strong-bodied pike loves to lie in wait for its prey. Of all out-of-door sports, angling is the pleasantest; if weary, there is the pleasant bank to sit down upon; the clear river to look over; weary, there is the pleasant bank to sit down upon; the clear river to look over; the fresh breeze ever blowing about one's face; the arrowy fight of the water-loving swallow to watch; in short, all the lazy luxuries to be found together that throw such a charm around open-air amusements. Fly-fishing, it is true, leaves the angler but little time to dream; but where the old-fashioned, well-weighted float stood perpendicular, for nearly the whole hour together—where no bite came to drag it down, nor any current to carry it away, but still, ealm, and motionless it stood, excepting when the breeze just stirred the sleuder line—there was nothing left but to gaze upon the sunny sky, the calm water, and the outstretched landscape: to think of Lzaak Walton, the milkmaid, the draught of red cow's milk, his shelter under the honeysuckle hedge while it rained, his breakfast of powdered beef and radish, the fish he ate that was fried in cow-lips, the room he slept in, that smelt so sweetly of lavender, and the flowers, which he said were too pleasant to look upon, excepting on holidays. No other amusement left while fishing in such a spot, but to call before the eye the image of that happy-hearted old angler, or to lum a verse of that joyous old song which he composed, entitled "The Angler's Wish," beginning with—

I in these flowory meads would be, These crystal stroams should solace mo; To whose harmonious huhhling noise, I with my angle would rejoice.

By the end of this month, many of the trees will be in leaf; the elm will have put on its green and graceful garment, and the oak be covered with its new foliage, whose bright red lue looks not unlike the decaying tints of Autumu. The put on its green and graceful garment, and the oak be covered with its new foliage, whose bright red hue looks not unlike the decaying tints of Autumn. The beech, which has been called the loveliest of all forest-trees, begins to show its sprays tinged with brownish purple, and the chestnut to open its fan-like sheath; while in almost every garden the dim green leaves of the like are outspread, and on the ends of the bonghs we can see the forms of the up-coned flowers; while over all, the emerald softness of the lime throws its shadow of tenderest green. But of all my forest favourites, for grace and beauty, for most stands the lady-like birch; although it possesses not the massy grandeur of the oak, nor the tall stately majesty of the elm, there is something so delicate in its slender sprays, in the brown and silver of its stem, and, above all, in the neatuess of its foliage, that I marvel our artists do not place it oftener in their quiet pastoral landscapes. Now, the hedges are covered by the milk-white blossoms of the blackthorn, and the fruit trees in orchards and gardens are laden with loads of beautiful blossoms—the apple trees looking as if Herrick's Parliament of Roses and Lilies had assembled upon the boughs. Over the cottage porches we also see the dark leaves of the honeysuckle trailing. Whichever way we turn the eye, we behold the Earth attiring herself in beauty, and from head to foot robing herself with leaves and flowers. "Tis as if Nature called upon man to quit his walled cities and visit her sequestered haunts—to come where the buds blow and the bees murmur, and the birds are never weary of pouring forth their music; to where Imagination listens—

Attentive, in his airy mood, To every murmur of the wood; The bee in yonder flowery nook, The chidings of the headlong brook.

The green leaf shivoring in the gale, The warhling hills, the lowing vale, The distant woodman's echoing stroke, The thunder of the falling oak.—Milton.

Delightful is it now to wander forth, like Solomon of old, "into the fields, or to lodge in the villages, to see the fruits of the valley, and to go forth into the gardens to gather lilies;" and, like the wise King of Israel, whose words we have here quoted, to make ourselves acquainted with all the green and living wonders of Spring. What a bleating is there now amongst the sheep along the uplands! What a delicious aroma do we inhale during a woodland walk, where the erisped leaves of the hazel overhang the pathway, and the banks, "painted with delight," are gaudy with the pale gold of the primrose and the deep-dyed azure of the blue-bell! Pleasant is it to wander amid lanes that lead nowhere, except into fields, or to the entrance of some dreamy old wood, beyond which green hills arise, whose boundary seems the sky. Past little sheets of water, which seem only made for the yellow flags and bulrushes to grow in, and which Nature with her own hand has dug there, for the birds that inhabit the woods to driuk of, when they are athirst; and in these sequestered haunts you sometimes startle the black water-hen; or, if it be later in the season, you see her floating about at the head of her dusky and downy young ones, or you hear the deep plash of the water-rat, which you have frightened from his banquet, as he was swimming round and round the broken branch that dips into the pool, and nibbling a leaf here and there, just at it pleased his dainty fancy.

water-rat, which you have frightened from his banquet, as he was swimming round and round the broken branch that dips into the pool, and nibbling a leaf here and there, just at it pleased his dainty fancy.

Now white and copper butterflies make their appearance; the emperor moth may also be seen, and the dull, low, jarring note of the mole cricket heard. The saw fly, the dread and terror of all gooseberry growers, awakens from its Winter sleep, and commences its work of destruction. Many are the beautiful names given to the butterflies and moths in the Midland Counties; such as the tortoise-shell, the primrose-coloured, the green-veined; and, amongst moths, the winter-beauty, the cross-wing, the oak-beauty, orange under-wing, garden-carpet, brindled-beanty, red-chestnut, augle-shaded, the triple-spot, the fox-moth, and numberless others, whose very names suggest pleasant thoughts, now begin to flutter about in the sunny days and warm evenings that come in with the close of April. The wood-ant makes its appearance this month: it is the largest of our British ants, and Is readily distinguished from the others by the rich brown with which it is marked in the middle. Their nests are frequently found in the woods arond London; and, though at first you would faucy the rounded nest was only a heap of loose litter, yet, on a closer examination, you will see it is regularly formed, and admirably adapted for carrying off the rain, and on a fine day the roof will be found all allive with busy workers. Every avenue which leads to the nest is securely closed at night, and opened again on the following morning, excepting on rainy days, when they remain within their covered habitations, and never stir abroad. If the avennes are only partially opened in the morning, it is asure sign that there will be rain in the course of the day, for there is scarcely a more unerring indicator of the weather than may be found in watching the motions of the wood-ant.

The "household-lowing swallow" has again returned, and, with the first dawn

it to fall. To prevent this, the swallow never builds up more than a layer or two at a time, and, when this is thoroughly hardened, works again npon it on the morrow. It is a pleasing sight to watch a swallow at work; to see it plastering away with its little chin, moving its head rapidly while it labours, and clinging firmly to the wall, as it works with its feet, and the pressure of its tail. Excepting when feeding its young, it labours but for three or four hours a day; the rest of its time is spent in playing with its companions, and seeking for food, which appears to form part of its amusement. These birds have often been observed in a dry season to wet their plumage, and shake themselves over the dust, which was not moist enough for the purposes of building, until they have got it into such a plastic state that it will readily adhere—such an action surely evinces a reasoning power. 'One swallow does not make a Summer' is an old adage, and to see two or three skimming about, is no proof of the general arrival, and frequently a week or more will clapse, and it will be drawing towards the close of April before they are seen in large numbers. It is the opinion of most naturalists, that the old swallows pair before they arrive in this country, and that such are the earliest builders—the young and inexperienced, who commence lousekeeping for the first time, are often the latest in rearing their broods. There are some people who do all they can to prevent swallows from building. I number none such amongst those whom I am proud to call my friends.

To one who, like myself, has for years found pleasure in studying the works of Nature, it affords great delight to witness the number of excellent works which are every year increasing on this inexhanstible subject, no department of which seems to arrest more attention than the habits of Birds. They are indeed the ancient builders, and in their plans may be traced the grand outline of many and trat which man has only improved and enlarged upon. They are the original

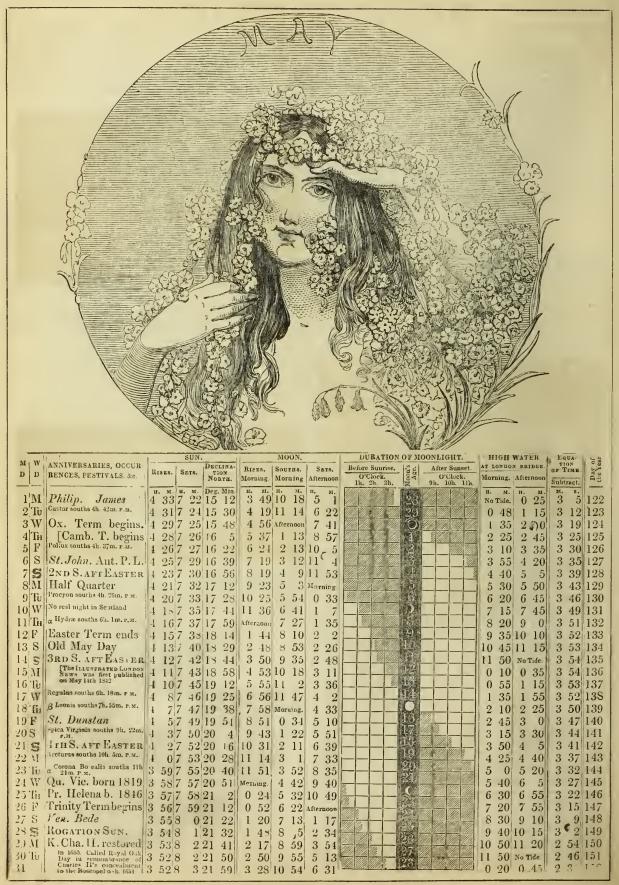
seems to arrest more attention than the habits of Birds. They are indeed the ancient builders, and in their plans may be traced the grand outline of many and art, which man has only improved and enlarged upon. They are the original masons and miners, who hew their way into rocks, and make their homes in caverns, burrow in embankments, and in every way seem equal to all we know of the habits of the early inhabitants of the earth. In them we find the early carpenters, who saw, and measure, and fit, make joints, rear up rafters and beams, and throw over all a vaulted roof. They are the primitive plasterers, who mix up cement, and spread it out smoothly over the rough work they have prepared to receive it, giving to the whole a level, hard, and even surface, which the builder of a palace can scarcely excel. The latter and the clothier but felts and weaves after their example. The basket-maker ouly twines into new forms the smoother and longer osiers which he avails himself of; for the brittle materials which they cross and intertwine together, would become a sightless and useless mass in his hands. Hurdis, a country parson, who lived at Bishopstone, in Sussex, about half a century ago, where he had his own press, and wrote and printed most of his truly beautiful poems, has, in his "Village Curate," left us the following exquisite passage on the building of birds:—

Mark it well, within, without;
No tool had he that wrought; no knife to cut,
No nail to fix, no hodkin to insert;
No gluo to join; his little beak was all,
And yet how neatly finished! What nice hand,
With every implement and means of art,
And twenty years' apprenticeship to hoot,
Could make me such another?

To watch the habits of these "little nuns," that haunt our old eathedral-like-forests, is one among the many delights which come with the return of Spring—the season which of all others seems to bring with it the greatest pleasure. From the des late and barren boundary-line of Winter, Spring advances, starting up from a bed of snow, and cold, and darkness. Summer has but to awaken, and she finds herself in a land already covered with flowers, and overhung with green leaves. Her coming startles us not; she seems to approach almot noiselessly. Nor is the rustling Autumn makes among the leaves more andible. It is Spring. she must leaves. Her coming startles us not; she seems to approach almost noiselessly. Nor is the rustling Antumn makes among the leaves more audible. It is Spring that, from the cold grey granite of a primeval looking world, starts up, and begins to clothe the naked waste with verdure; that arrests both eye and ear; and somehow we seem to love her better than any of the other Seasons, for we know through what a dreary and perilons waste she hath travelled; that night and day she was journeying on alone, when the snow was beating in her fair face, and the cold winds blowing upon the pale snowdrops which she held in her hand as she came along:

Before the rcd-cock crowed from the farm upon the hill, When we were warm asleep, and all the world was still.





MAY.

THE SUN is in the sign Taurus till the 21st, on which day, at 0h. 12m. A.M., he enters Gemini (the Twins). On the 1st, he is 95,800,000 miles from the Earth. He rises on the 1st at E.N.E., and sets W.N.W.; on the 26th, he rises at N.E. by N., and sets at the N.W. by N. points of the horizon.

He souths on the 1st, at 3m. 5s. before noon; on the 15th, at 3m. 5s. before noon; and on the 31st, at 2m. 37s. before noon (common clock time); at an altitude of 53° on the 1st, of 57° on the 15th, and of 60° on the last day.

The Moon rices between 2h A. as said noon between the 1st and the 10th.

The Moon rises between 3h. A.M. and noon between the 1st and the 10th; between noon and midnight from the 12th to the 23rd; and after midnight from between noon and midnight from the 12th to the 23rd; and after midnight from the 25th. She sets between 5h. P.M. and midnight from the 1st to the 7th; between midnight and noon from the 9th to the 25th; and after noon from the 27th. She is in Pisces on the 1st; near Aries and Cetus on the 2ud and 3rd; in Taurus to Gemini on the 6th; in Gemini on the 7th; Cancer on the 8th and 9th; Leo on the 10th, 11th, and 12th; Virgo on the 13th, 14th, and 15th; Libra on the 16th and 17th; in Ophiuchus on the 18th, 19th, and 20th; near the boundaries of Sagittarius and Aquilla on the 21st and 22nd; in Capricornus on the 23rd; in Aquarius on the 24th, 25th, and 26th; in Taurus on the 31st.

On the 1st, she 1s situated 4° N. of the Equator, and attains her greatest eleva-

Pisces on the 27th; Cetus on the 28th; Fisces on the 29th; Aries on the 30th; and Taurus on the 31st.

On the 1st, she is situated 4° N. of the Equator, and attains her greatest elevation on the 6th, being 56° above the horizon when she souths; she is on the Equator on the 13th, and on the 21st, is 19° above the horizon when she souths; is on the Equator on the 27th; and, on the last day, is situated 17° N. of the Equator, being 55° above the horizon, when she souths. She is new on the 3rd, and full on the 18th, but without an celipse at both times.

She is near Mercury, Venus, and Uranus on the 1st; Mars and Jupiter on the 7th; Saturn on the 27th; and Venus on the 31st.

Mercury is in the constellation of Pisces till the 3rd; in that of Cetus on the 4th and 5th; in that of Aries from the 6th to the 16th; and in Taurus from the 17th. He rises uear the E. by N. on the 1st, at 4h. 11m.; and on the 15th, at 4h. 1m.; and these times are 22m. and 10m. respectively before the Sun rises. He sets on the 21st, at 8h. 8m., being 16m. after the Sun has set; on the 24th at 8h. 34m.; on the 27th, at 8h. 58m.; and on the 31st, at 9h. 26m.; these last three times are 37m., 58m., and 1h. 23m. after sunset. Therefore, from the 27th, the Planet is favourably situated for observation after sunset. The Planet sets near the W.N W. He is moving eastward among the stars, and be is in superior conjunction with the Sun on the 19th. He is near the Moon on the 1st. He is near Venus at the beginning of the month, as is shown in the annexed diagram.

PATHS OF MERCURY AMD VENUS IN MAY, 1848.



Scale, 20 degrees to one inch

Venus will be in the constellation of Pieces till the 7th; in that of Arles from the 7th to the 27th, on which day she will pass into Taurns.

She is a morning star all the month, and rises near the E. by N. at the beginning, and near E.N.E. at the end; on the 1st, at 4h. lm.; on the 15th, at 3h. 36m.; and on the last day, at 3h. 16m. A.M. She souths at 10h. 35m. on the 1st; at 10h. 44m. on the 15th; and at 10h. 59m. A.M. on the 31st; at the altitude of 44° on the 1st; and also on this day she is near Mercury and Uranus, and the Moon passes her again on the 31st.

Mars will be in the constellation of Gemini till the 29th, and in that of Cancer on the 30th and 31st.

Time of

15 Midnight

on the 30th and 31st.

PERIGEE

Length of Day, or hours and

He is an evening star and sets near the N.W. by N. on the 1st, at 0h. 25m.

A.M.; on the 15th 11h. 58m. P.M.; and on the 31st at 11h. 24m. P.M. He souths at an altitude 63° on the 1st, and 61° on the last day; at 3h. 57m. P.M. on the 1st; at 3h. 38m. on the 15th; and at 3h. 16m. on the 31st. He is near the Moon on the 7th, and he is near Jupiter all the month, being W. of him till the 16th, near him on the 17th, and moving eastward from him from the 18th to the end of the month. Mars being the higher of the two Planets all the month. These Planets are both situated near to Castor and Pollux, during this month; and their relative positions and motions are represented in the annexed cut.

PATHS OF MARS AND JUPITER IN MAY, 1848.



Scale, seven-aod-a-half degrees to one men; 'the planet Mars is drawn on a scale of 40 seconds of are to an inch

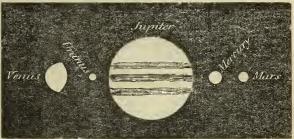
UPITER will be in the constellation Gemini throughout the month.

JUPITER WILL DE in the constellation Gemini throughout the month. He is an evening star, and sets near the N.W. by W. on the 1st at 0l. 43m. A.M.; on the 15th, at 11h. 52m. P.M.; and on the 31st, at 10h. 59m. P.M. About the middle of the month he rises at 8h. A.M., and passes the meridian at 3h. 40m. P.M., at an allitude of 61°.

His motion among the stars is slowly eastward.
He is near the Moon on the 7th. At the beginning of the month he is some distance to the left of Mars; on the 18th, the two Planets are near together: the Planet Mars being higher than Jupiter; and after this time Jupiter will be to the right of Mars, by intervals becoming greater and greater day by day. (See the right of Mars, by intervals, becoming greater and greater day by day. (See the preceding diagram.)

The telescopic appearances of the Planets, whose paths are exhibited in the preceding engravings in this month, are as follows:—

RELATIVE APPEARANCE OF THE PLANETS IN THE MONTH OF MAY. 1848.



Scale, 40 seconds of arc to one inch.

By comparison of these appearances with those shown in January, their change

by comparison of these appearances with those snown in January, their change of appearance will be immediately seen; and they are such that they all appear to be much smaller than in January.

SATURN will be in the constellation Pisces. He is a morning star, and rises midway between the E. aud the E. by S., on the 1st day, at 3 h. 18m. A.M.; on the 15th day, at 2h. 25m. A.M.; and on the last day, at 1h. 24m. A.M. He souths at 8h. 5m. A.M., on the 15th day. He is near the Moon on the 27th.

22 25 23

OCCULTATIONS OF STARS BY THE MOON.

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TIME	S OF CHA	NGES OF T	THE MOON	ī, ļģ.	MER	CURY.		T ASCEN	ISIONS A	ND DEC		ONS OF '		NETS.	TIRA	NUS.
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gee), o		istance (Peri			Right Asceosion	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North.
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JUPITER'S SATELLITES.



Beautiful as May will ever be, it was a much merrier month in the olden time than it is now. Our forefathers, though brave as lions, were still children at heart: they loved all ancient customs that contributed to happiness, and considered that time well spent, which drew them closer and eudeared them more to each other: they had their mustering grounds, where Wealth and Poverty often congregated on the same equal footing. May was one of the chief months in which this happy assemblage took place. The Lord of the Soil gave the tallest tree upon his estate for the May-pole; and the lowlest labourer that lived nnder him was for one day in the year happy, and danced around it, and loved all the more the kind master, who had gladly granted him his May-day holiday, and who, with his fair wife and lovely daughter, came down from the old tye covered hall to look at the rustic sport. It was a holy and kindly feeling that first established this reverence to Nature, this worship to the sovereign Month of Flowers. If, as is said, it first originated amougst the Pagans, it, nevertheless, revealed glimpses of the Great Divinity, then but dimly seen; for, distant as the approach may be, those who feel a love for the things created, will at last carry their adoration to the Creator.

Our ancestors rose with the first dawning of day, to fetch home boughs from the woods, with which they decorated the fronts of their houses, formed into green arbours, and twined into their May day garlands. Both Spenser and

Herrick, two of our old poots, have left us descriptions of this ancient custom, which is mentioned by older writers who lived long before their names were known; and we could quote pages of beautiful passages from many ancient works, illustrative of old May-day customs—

But they are dead end gone, lady, They are dead and gone; And at their head a grass-green turf And at their feet a stone.—

we have but glanced at them as belonging to the things that have passed away

away.

If May brought not another blossom excepting those which she hangs out upon our thousands of miles of hawthorn hedges, we should still hall her as Queen of the Year. Ohl is it not a pleasant thought to know that even "looped and windowed raggedness," the poorest beggar that ever wandered in want by the way-side, now inhales a fragrance worthy of the gardens of Heaven—that around the bomeliest cottage, whose thatched roof covers contented Poverty, there now spreads an aroma such as never floated into the marble halls of city palaces, such as the roses of Summer never shed. I have before, while given tho reint omy fancy, described how these beautiful blossoms were first formed, in my "Poetical Lan-

gnage of Flowers," from which I again copy the following lines, showing-HOW MAY WAS FIRST MADE.

As Spring upon a silver cloud,
Lay looking on the world below,
Watching the breezes as they bowed
The buds and blossoms to and fro,
She saw the fields with nawthorns walled;
Said Spring, "New buds I will create."
She to a Flower-spirit called,
Who on the month of May did wait,
And bade her fetch a hawthorn spray,
That she might make the buds of May.

That sae might make the bases of say.

Said Spring, "The grass looks green and bright;
The hawthorn hedges, too, are green;
I'll sprinkle them with flowers of light,
Such stars as Earth hath never seen;
And all through England's girded vales,
Hor steep hill-sides, and haunted streams,
Where woodlands dip into the dales,
Where'er the hawthorn stands and dreams;
Where the cleaved trees make dark the day;
I'll light each nook with flowers of May.

Spring alpoks the cleaved

Like pearly dew-drops, white and round, The shut-up buds shall first appear, And in them be such fragrance found As breeze before did nevor bear; Such as in Eden only dwelt, When angels hovered round its bowers, And long-haired Eve at morning kneit In innocence, amid the flowers; While the whole air was every way Filled with a perfume sweet as May.

And oft shall groups of children come, Threading their way through shady places, From many a peaceful English home, The sunshine falling on their faces; Starting with merry voice the thrush. As through green lanes they wander sing-ine.

ing.
To gather the sweet hawthorn hush,
Which homeward in the evening bringing,
With smilling faces, they shall say,
"There's nothing half so sweet as May."

Spring shook the cloud on which she lay And silvered o'er the hawthorn-spray, Then showered down the buds of May.

Now the woods ring again with the loud chattering of the jay, and the merry shout of the woodpecker; and the golden furze-bushes are all alive with flocks of busy linnets. The golden-banded bees are out upon the broom-covered heath, and, where the clover-fields are in flower, they keep up a continuous nurmuring, like a river that ever rolls singing to itself beneath its flowery banks.

"Tirra-lirra, tirra-lirra, jug, jug, jug!" List! that is the song of the nightingale. How delightful to wander forth on a sweet May evening, and listen to that enchanting lay, while the star of eve is planted like a gem upon the forehead of the sky. Although we can searcely see what flowers are at our feet, or distinguish the May-buds, from which such a rich aroma arises, from the leaves, we know that the tawny-brown bead of the little chorister is somewhere at hand, "in shadiest covert hid," and will never wander far from the spot, unless captured, until the Summer flowers begin to fade. It is believed that the nightingale sings sweetest in the neighbourhood where the spotted cowlips grow; and that never, until the time of his denarture arrives, can be be allured from and that never, until the time of his departure arrives, can he be allured from so sweet a spot. What rapid notes; how his music gushes forth, like a stream that sweet a spot. What rapid notes; how his music gushes forth, like a stream that is eager to empty itself; he sings as if Summer wero far too short for him to reach the end of his song; as if, even with all his hurry, he should not have half time enough to say all that he intended, although he came before the pearliushed blossoms of the hawthorn had opened. See where the bright round moon heaves up above the distant hill! Oh, who would not leave the glitter and glare of the crowded city for such a scene as this? Saving for the song of the nightingale, how still the whole landscape seems; between the pauses that he makes to regain his breath, we can hear the lapping and rippling of the river; not a branch waves without the rustling sound becoming andible; and fareff we eath the melancholy booming of the bittern—that strange, sad, and solitary sound, which, when heard at midnight, in the midst of lonely and desolate marshes, causes the stoutest heart for a moment to quail.

"Too, who, too, who, too.

"Too-whoo, too-whoo!" Ancient haunter of ruins, lover of darkness, I know "Too-whoo, too-whoo!" Ancient haunter of ruins, lover of darkness, I know thy voice. Fitting abode for the owl is younder "ivy-mantled tower," on which the moon-light is now falling; for the bower which beauty once adorned is now desolate; the floor of the banqueting-hall is now haunted by the toad, and among the rank weeds which overgrow the court-yard the red fox oftimes shelters. From those crumbling battlements the eall of the warden will nover more

Next to the study of birds, the habits of bees ought to rank chief amongst that of insects; those "singing masons" that build "roofs of gold," who go out with "merry March," to rob the velvet buds. How naturally comes to the mind that beautiful description of Shakspere's, which everybody must be familiar with who reads his works. With what state the queen bee sets out, when she quits her hive; what pursuivants, heralds, outriders, attendants, who wear belts of gold, swell her train, and "go sounding" through the "dowery towns" she passes. What order rules her household, filled as it is with nurses who belts wome, and waiters who brime provisions to the builders and busy scouts who passes. What order rules her household, filled as it is with nurses who feed the young, and waiters who bring provisions to the builders, and busy scouts who are ever running to and fro, and carrying in food; kneaders of wax, and skilful architects, who work with mathematical accuracy, and display the greatest knowledge both in the saving of material and labour, though their work is completed in the most perfect manner. Thanks to the naturalists who have made the habits of these English "humming birds" their study, we are daily becoming more familiar with the "government" of bees.

Flowers are now abundant, the trees become more beautiful every day, and all the singing birds that visit us are now assembled in the fields and woods, and, as the old women in the country say, "it is almost a sin to stay in-doors, if we can get out;" for this is the month which our Saxon ancestors called "Milk Month;" and, from the very name, we know that beautiful English maidens rosc early in the mornings of May, and went out into the very fields in which our country maids still sing, to milk their cows, just as the village girls do in our own day. An old grey-headed man once told me that he had heard his grandfather say, the hills which rise above Gainsborough, in Lincolnshire, were in ancient times called the Milk Hills; but they never rotained that name after they were enclosed; and I have often thought that they bore the same name when my native county formed a part of the Saxon kingdom of Mercia; for I deeply love these old associations; for I knew that Alfred, whon young, had marched over those very hills, when he joined his brother and the Kiog of Mercia and they crossed the Trent to attack the Danes, who occupied Nottingham. May, and milk-month, and the old green milk-hills, were always in my mind associated with Alfred, and the Danes, and the destruction of Croyland Abbey, and no end of "old world histories." Nor can England furnish many prettier little pastoral pictures than a comely village girl milking a beautiful red and-white cow under a shady tree, with a reedy pond at hand, half darkened by shadowy foliage, and, in the background. Flowers are now abundant, the trees become more beautiful every day, and all the background.

A green English home-a land of ancient Peace."

A green English home—a land of ancient Peace."
It is not all poetry that such a scene conjures np. No; there is mingled with it visions of sweet butter and new cheese; yellow cream, in which a spoon will almost stand upright; cheesecakes, curds-and-whey, syllabubs, and endless good chings, which convince a sensible man that Taste is not confined alone to the fine arts. Fain would I present my readers with Sir Thomas Overbury's description of a "Fair and Happy Milkmaid," if want of space did not prevent me. Ast it is, I hope they will bear it in mind, and if they have never read it, remember that it is one of the most beautiful poetical-prose paintings in the English language. Those who have seen my "Beauties of the Country" are already acquainted with the extract. The following is all I have room for:—"She knows a fair look is

but a dumb orator to commend virtue, therefore minds it not; though she is not arrayed in the spoils of the silk-worm, she is decked in innocence—a far better wearing; she rises with the cock, and at night makes the bell her curfew. Her breath is her own, which scents all the year long of June, like a new-made hay-cock. She makes her hand hard with labour, and her heart soft with pity." So he runs on, piling one beautiful conceit upon another unto the end of the sketch.

he runs on, piling one beautiful conceit upon another unto the end of the sketch. The young corn has now risen high above the furrows, and looks like slips of green silk waving in the wind. Wild roses droop their pearl-flushed cups beneath the weight of morning dew. Along the wayside hedges, the chesnut begins to show its cones of flowers; while the laburunus stand like foresters, in their rich liveries of "green and gold." The oaks put on their new attire, but slowly, as if to show that their hardy limbs have less need to don their new clothing than their more effeminate brothers of the wood, but condescending at last to act like the rest, if it only be to shelter the birds, and keep the woodbine and wild flowers that grow around their knotted knees from withering.

What pictures now float before ns—what glimpses of rural objects has that old knotted osk called up! The hawk which we once saw poised almost motionless above it—the hare we startled from the fern that grew at its feet—the gipsy camp, a few yards distant, which we first discovered by the smoke curling ahove its foliage—the ringdove we heard cooing, while lying idly in its cool shade—the brook that seemed to sing for a moment, and then to become silent again, just a

his tonage—the ringuove we head cooning, while ying day in its cool and the to become silent again, just as the wind went and came among the green oak-leaves—surely, man was never intended to spend his days in walled cities, without beholding the beauty with which the hand of God has clothed the earth, to instruct and delight him.

which the hand of God has clothed the earth, to instruct and delight him. Even a life of toil and suffering is sweetened by the remembrance of scenes like these, for they are pleasures that pass not away, but are ever stepping unaware upon us, throwing sudden bursts of "sunshine upon the shady place," and cheering sorrow in its solitude. By my own hearth I can traverse hundred of miles of pleasant scenery, can call up an hundred landscapes of forest, hill, river, valley, and pastoral plain; of village, and tree, and stile; of winding high ways and pleasant field-paths, even to the very figures that dot the scenery, and the parting boughs above my head, that let in little patches of clear blue sky; and during such rambles as these, England has seemed to be my own great freehold. If the selfish lord of the soil refused me admittance through his gate, I sought the nearest cuinence that overlooked it, neened at his deer, and his avenues, his nearest cminence that overlooked it, peeped at his deer, and his avenues, his sheets of water, where the white swans floated, and carried off in my heart insiges of pleasure that delighted me for days after, while he moved only before my "mind's eye," like the ill-formed scare-crow, that gave "disgnst, but hurt not;" nor did I love Nature less, because he was placed there for a time, though I sometimes sat down beside his wall, and "taxed Heaven with unkindness;" but this feeling soon passed away, my wrath reached not through fourteen lines of a sonnet.

Are our rulers aware that the miscalled tea-gardens around this huge Metropolis, which contains two millions of human souls, are but little better than out-of-door gin-shops?—that every vendor of spirits, who can command an arec two of land, a tree or two, a few benches, a licence, and a little "harsh-music," can, by law, half-poison, or make drunk, all who choose to call "Waiter," and have the wherewith to make themselves comfortably drunk? I believe not! Yet, have the wherewith to make themselves comfortably drunk? I believe not! Yet, what scenes I have witnessed in my rambles around these suburbs! as I have wandered an unknown wayfarer, with my stick in my hand, and sat down on the nearest bench, to my glass of ale and crust of bread and cheese; and I have sighed to think that, ere long, when the infamous Eoclosure Act is in full force, these will be the only places where the future men and women of England can resort to. But then—happy thought!—our city-streets will be well-drained, and our close courts well ventilated; we shall be able to ruralize in cellars without fearing the fever; our garrets will be sweeter than gardens; we shall be delightfully situated in the neighbourhood of Wash-houses and Model Lodging-houses; and see May with all its flowers—in the flower-pots—exchanging vegetation for ventilation, the latter an improvement trally. Would it not be wiser to divide it—to let us have a little less of the "willanous compound," and a little more of May in the country? A knowledge of the beantiful can only be obtained by an ac-—to let us have a little less of the "willanous compound," and a little more of May in the country? A knowledge of the beantiful can only be obtained by an acquaintance with nature. We may throw open the doors of our exhibitions, and hang the walls with pictures, but if we enclose the green, rural, and out-of-door world, we shut up the reality, and all the glimpses that cau be got of those cool verdurous old English nooks will be limited to such as can be seen on the canvass. To alter the language of Cowper, we may then exclaim, "Man made the town, and the artist the country," at least so much of it, as, excepting the dusty highways, we shall be allowed to see. Such is the wisdom of our modern Legislators.





				1			1.	MININ	MILLINGSTA		/			
	1 ,,,,	ANNUEDO DE OCCUP	1	SUN.		6	MOON.		DURATION	OF M	OONLIGHT.	HIGH WATER		11 _ 8
M	W	ANNIVERSARIES, OCCUR-	RISES.	Sets.	DECLINA-	RISES.	Souths	. SETS.	Before Sunrise.	e n's	After Sunset	AT LONDON BRIDG	E. OF TIME.	of Market
D	D	RENCES, FESTIVALS, &c	Itiana.	CAIS,	NORTH.	Morning.	Morning	Afternoo	O'Clock.	Moon'	O'Clock. 9h, 10h, 11h.	Morning. Afterno	on Subtract.	Da
_	_		н. м.		Deg. Min.	н. м.	H. M	н. м	-	ALL STREET	WWW.WWW.WWW.	II. M II. N	M. S.	
1	Тн	Ascen. Holy Thurs-	3 52	8 5	22 7	4 11	11 54	1 7 44		Ò		1 15 1 3		153
2	F	day. Nicomede	3 51	8 5	22 15	5 1	Afternoo	n 8 48		\mathcal{F}_{1}		2 2 5 2 3	0 2 19	154
3		No real night	3 50	8 6	22 22	6 1	1 54	9 44		$\dot{2}$		2 55 3 2		155
4		SUN. AFT. ASC. D.		8 7	22 29	7 4	2 5	110 30		3	2 2/10 2/10			
	2		3 49	0 ,	$\frac{22}{22} \frac{23}{36}$	8 12		11 7			- 2 2		5 1 59	156
5	.11	St. Boniface. King	1	0 6			"	111		4		4 30 4 5		157
6	It	face was an Englishman.	3 48	8 8	22 42	9 19	1	011 40	/	5		5 15 5 3	5 1 38	158
7	10	and after being sent to preach the Gospel in Fries-		8 9	22 48	10 27	5 22	Morning.		6		6 0 6 2	5 1 27	159
8	lìi	land, was made primate of Germany. He is the Apostle of the Germans. He suf-	3 47	8 10	22 53	11 34	6 7	7 0 5		0		6 50 7 1	5 1 16	160
9	F	of the Germans. He suf- fered Martyrdom in 755	3 46	8 11	22 59	Afternoon	6 5	0 30		8		7 45 8 1	0 1 4	161
10	S	Oxford Term ends	3 46	8 12	23 3	1 40	7 33	0 54		9		8 45 9 2	. 10	162
11	S	PENTECOST. W. S.	3 46	8 13	23 7	2 42	8 16			10		9 50 10 2		163
12	M	Whit Monday	1	~	23 11	3 44	8 59	· V		1		0 00 10 2	-11	
13	Th.		2 45		23 15	4 7 7 2				12		10 55 11 2	0 10	164
1	TU	Whit Tuesday	3 45			4 46	9 44			15		11 55 No Tid	0 16	165
14	VV	Ember Week	3 45		23 18	5 47	10 30			13		0 20 0 4	O Add.	166
15	Тн	Regulus sets at 11h. 33m.	1 77	I -01	23 20	6 45	11 18		7			1 0 1 2	0 0 9	167
16	$ \mathbf{F}_i $	Trinity Term ends	3 45		23 23	7 39	Morn'ng.	3 49				1 45 2	0 0 21	168
17	S	St. Alban	3 45	8 16	23 24	8 30	0 7	4 34		16 17		2 20 2 4	0 0 34	169
18	S	TRINITY SUNDAY	3 45	8 17	$23 \ 26$	9 15	0 58	5 28		17		2 55 3 1	5 0 47	170
19	M	Arcturus souths 8h. 16m. P. M.	3 45	8 17	23 27	9 53	1 49	6 27		13		3 35 3 5		171
20	Τù	Queen Vic. acces.	3 45	8 17	23 27	10 29	2 39			19		4 10 4 2		179
21	W	Queen Vic proc. Longest day	3 45	8 17	23 27	10 59	3 30	1		20			5 1 26	173
22	Tu	Corpus Christi	3 46	8 18	23 27	11 28	4 20		1 T T T T T T T T T T T T T T T T T T T	21-				
23	F	a Corona Borealis souths 9h.	3 46	2 10	23 26	11 53	5 10	1		22		0 2 2 2 2 4		174
1 20	- 1	20m F.M.	2 46	0 10	$\frac{23}{23} \frac{20}{25}$					7		6 15 6 4		175
2.4	S	Nat. St. John			23 23	Morning.	6 (Afternoor		24		7 5 7 3		176
25	3	ISTS. AFTTRINITY		8 18	23 24	0 22	6 52			3		8 5 8 3	5 2 17	177
26	13	α S. rpentis souths 9h 16m P.M.			$23 \ 22$	0 51	7 45		20002	$\frac{1}{26}$		9 15 9 4	5 2 30	178
27	Ti	Antarcs souths 9h. 55m. P.M.	3 47	8 18	23 20	1 24	8 40			20		10 20 10 5	5 2 42	179
28	M	Qu. Vic. cro. 1838	3 48	8 18	23 17	2 3	9 38	5 23		27		11 25 11 5	5 2 55	180
29	Th	St. Peter's day. St.	3 49	3 17	23 14	2 48	10 37	6 31		28		No Tide. 0 30	11	181
30	F	Peter was the oldert of the	3 49	3 17	23 10	3 41	11 37	7 31				0 57 1 23		182
		D poor, the was crue, M.D.03										0 071 1 20	0.5	102

JUNE.

THE SUN is in the sign Gemini till the 21st, on which day, at 8h. 13m. A.M., he enters the sign Cancer (the Crah), and Summer commences.

On the 1st day, he is 96,400,000 miles from the Earth. He rises on the 1st, near 2°N. of the NE. by N, and sets 2°N. of the N.W. by N: on the 21st, he is at his greatest North declination, and rises and sets 4°N. of the ahove points of the horizon. He souths on the 1st, at 2m. 28s. hefore noon; on the 14th, at 4 seconds before noon: and, on the last day, at 3m. 18s. after noon (common clock time); at an altitude of 60½°, on the 1st; of 62° nearly, on the 22nd; and of 61½° on the last day.

at an altitude of 60½°, on the 1st; of 62° nearly, on the 22nd; and of 61¾° on the last day.

The Moon rises between 4h. A.M. and noon, from the 1st to the 8th; hetween noon and midnight, from the 10th to the 23rd; and after noon from the 25th. She sets between 7h. F.M. and midnight from the 1st to the 6th; hetween midnight and noon, from the 8th to the 23rd; and after roon from the 25th. She is in the constellation Taurus on the 1st and 2nd; Gemini on the 3rd and 4th; Cancer on the 5th; Leo on the 6th, 7th, and 8th; Virgo from the 9th to the 12th; Libra on the 13th and 14th; Ophiuchus on the 15th and 16th; she is moving on the houndaries of Sagittarius and Aquila during the 17th and 18th; in Capricornus on the 19th; in Aquarius on the 20th, 21st, and 22nd; in Pisces on the 23rd; in Cetus on the 24th; in Pisces on the 25th; skirting Aries and Cetus on the 26th and 27th; in Taurus on the 28th and 29th; and in Gemini on the 30th. On the 2nd, attains her greatest altitude, heing 56° high when she souths; is on the Equator on the 9th; at her lowest point on the 17th, heing 20° ahove the horizon when she souths; is on the Equator again on the 24th; and, on the last day, is situated 18° N. of the Equator.

She is new on the 1st; full on the 16th; and new again on the 30th; but without an eclipse at such times.

She is new on the 2nd; Jupiter and Mars on the 4th; Saturn on the

She is near Mercury on the 2nd; Jupiter and Mars on the 4th; Saturn on the 23rd; Uranus on the 25th; and Venus on the 30th.

PATHS OF MERCURY AND JUPITER, JUNE, 1848.



Scale, 15 degrees to one inch.

Scale, 15 degrees to one inch.

MERCURY is in the constellation of Taurns on the 1st and 2nd; in that of Gemini, from the 3rd to the 21st; and on the latter day passes into Caucer.

He sets near the W.N.W. throughout the month: on the 1st, at 9h. 3lm.; on the 5th, at 9h. 49m.; on the 8th, at 9h. 58m.; on the 11th, at 10h. 3m., on the 14th, at 10h. 5m.; on the 17th, at 10h. 2m; on the 20th, at 9h. 58m.; on the 23rd, at 9h. 50m.; on the 28th, at 9h. 28m.; and on the 30th, at 9h. 28m.; and on the 30th, at 9h. 28m., on the 8th; 1h. 50m., on the 11th; 1h. 51m., on the 14th; 1h. 46m., on the 3rd; 1h. 12m., on the 17th; 1h. 40m., on the 20th-1h. 32m., on the 23rd; 1h. 12m., on the 26th; 1h. 11m., on the 20th-1h. 32m., on the 30th. Throughout the whole of this month, the Planet is most favourably situated for observing him. He is moving Eastwa among the

stars, quickly at the beginning and slowly at the end of the month. From the mid-dle of the month to the end, he is very near Jupiter, par icularly during the even-ing of the 20th. The relative positions of these Planets throughout the month, with respect to themselves and to the fixed stors, are shown in the following engraving. He is at his greatest East elongation on the 22nd.

Venus will be in the constellation of Faurus till the 27th; and in that of

Gemini after that time.

Gemini after that time.

She is a morning star during this month, and rises near the E.N.E., on the 1st, at 3h. 15m.; on the 1sth, at 3h. 9m.; and on the 30th, at 3h. 18m. She souths on the 1st, at 11h. 0m.; on the 1sth, at 11h. 16m.; and on the 30th, at 11h. 36m. A.M., at the altitude of 57° on the 1st; of 61° on the 15th; and of 62° at the end of the month. During this month, this planet attains her greatest North declination (See helow); and, consequently, she attains her greatest North declination (See helow); and, consequently, she attains her greatest meridian altitude during the year. She is near the Moon on the 30th.

Mars will he in the constellation of Cancer throughout the month.

He is an evening star, and sets near N W by N at the heglinning, and midway hetween N.W. by N, and W N W at the end of the month; on the 1st day, at 11h. 22m. P.S.; on the 15th, at 10h 50m. P.M.; and on the 30th, at 10h. 13m. P.M. He souths on the 1st, at 3h. 15m. P.M.; and on the 1st day at 2h 34m. P.M. He is near the Moon on the 4th, and he is moving eastward from Jupiter during the month, through a harren region in the heavens.

JUPITER will he in the constellation Gemini till the 26th, and in that of Cancer from the 27th.

from the 27th.

He is an evening star, and sets near the N W. by W. on the 1-t, at 10h. 56m. F.M.; on the 18th, at 10h. 16m. F.M.; and on the 30th, at 9h. 20m. F.M. Ahout the middle of the month he rises at 6h. A.M., and souths at 2h. F.M., at an altitude of 60°. His motion among the stars is eastward; he is near the Moon on the 4th; he is still near Castor and Pollux; and from the middle of the month he is also near Mercury; these four objects heing near together, particularly on the 20th days. the 20th day.

SATURN will be in the constellation Pisces. He is a morning star, and rises

midway between the E. and E. by S.; on the list day, at 1h. 21m. A.M.; on the 15th, at 0h. 27m. A.M.; and on the 30th, at 1lh. 25m. P.M. He souths ou the 15th, at 6h. 10m. A.M., and sets at about noon. He is near the Moon on the 23td. The ring is invisible during this month.

The ring is invisible during this month.

URANDS rises near the E. by N. on the 1st, at 1h. 56m. A.M., and on the last day, at 0h. 4m. A.M. He souths on the 15th, at 7h. 45m., at an altitude of 45°. The various phenomena connected with the sppearance of Saturn's ring will be hetter understood by referring to the following Engraving, where the circle a, b, c, d, represents the orbit of the Earth round the Sun, in the centre, and A, E, C, D, E, F, and G. that of the orbit of Saturn, the latter being at a distance from the Sun uine and a-half times greater than that of the former.

When Saturn is in the position at A, the Earth and the Sun are both in the plane of the ring, or, in other words, its edge is turned towards us, and it will be invisible. It was in this situation in the year 1833.

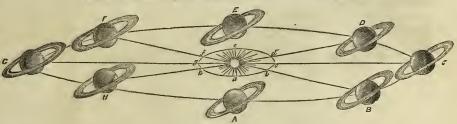
As the Planet moves in his orbit from the position A to that of B, the ring gradually opens, and we see its northern side; and at the position C, the ring is the most open, its face being turned more directly towards us. It was in this position in the year 1833.

most open, its accreting states above above; the position at D, the ring gradually closes, and it contracts more and more till it again disappears at E, in which position the San shines on one side of it, and we are looking at the other. It is in this posi-

tion at present (1848).

As the Planet still farther advances in his orhit from the position E to that of As it continues invisible till the Sun and the Earth are again on the same side of

DIAGRAM ILLUSTRATIVE OF THE DIFFERENT APPEARANCES OF SATURN'S RING.



(Continued in July.)

				(**************************************		
opth opth	Length of Number of hours and minutes the	Time of	JUPITER'S SATELLITES.	OCCULTATIO	NS OF STARS BY THE MO	ON.
Days the Mor	hours be- tween Sun- rise and Sunset. day has in- creased since the Stortest Day.	or beginning Twilight		Names of the Stare.	Times of disappearance and re-apprarance of the of Star.	At the dark or bright limh of the Moon.
1 6	H. M. H. M. 16 13 8 28 16 21 8 35			10 Sextantis	6 6 11 13 р.м. At re-appearance, the	Dark Bright
11 16 21	16 27 8 42 16 30 8 45 16 32 8 47	No real night, but constant twilight.	Are not visible, Jupiter heing too near to the Sun.		Moon will have set. 13 9 57 P.M. 13 11 9 P.M. 6 15 9 20 P.M.	Dark Bright Dark
26 3 0	16 31 0 1 16 28 0 4				15 10 10 р.м.	Bright

							181		1				
TIMES OF CHANGES OF THE MOON	اه			RIGH	I AS- EI	NS-ON-	AND OF	CLINATIO	INS OF	T E + L	ANEIS.		
TIMES OF CHANGES OF THE MOON, And when she is at her greatest distance (Apogee),	42 d	MERC	CURY	VEN	US.	MA	Ko.	JUPI	t F K	SAI	UKV	UK	NUS.
or at her least distance (Perigee), from the Earth in each Lunation.	Mo	Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascention	Declina- tion North.	Right Arccusi m	Declina- tion South,	Right Ascension	Declina- iion North.
NEW MOON 1D. 2H. 40 M. P M FIRST QUARTER 8 5 16 P M FULL MOON 16 8 58 P.M. LAST QOARTER 24 6 27 A M. NEW MOON 30 10 19 P.M APOGEE 12 11 A M. PERIOZE 28 7 A.M.	1 6 11 16 21 26	6 22 6 57 7 27 7 50 8	25° 23′ 25° 28 24° 43 23° 24 21° 43 19° 54	3h. 40m 4 5 4 31 4 57 5 23 5 50	18° 37′ 20 5 21 19 22 18 23 2 23 29	7h. 56m 8 8 8 21 8 34 8 46 8 59	22° 13′ 21 35 20 53 20 8 19 20 18 28	7h 29m 7 33 7 38 7 42 7 46 7 51	22 6 21 57 21 47 21 36	23h. 42m 23 43 23 44 23 45 23 45 23 45 23 46	4° 8′ 4 3 3 58 3 55 3 53 3 52	1h. 19 n 1 20 1 20 1 21 1 21 1 21 1 22	7° 39′ 7 44 7 48 7 52 7 55 7 58



A hidden brook in the leafy month of June, That to the sleeping woods all night singeth a quiet tune.

COLERIDGE.

June is the month of roses, the season when England's own national flower blows broad and beautiful along her brown old winding highways, and in her thousands of beautiful gardens, outrivalling the dye that stains the lovely checks of her own island maidens. The rose has ever been held as the queen of flowers; it has been called the ornament of the earth—the blush of beauty, and the breath of love. In ancient days the bride was crowned with it, and it was twinde around the brows of the honoured guests who sat at the banquets, and was made the emblem of friendship and love. Poets have drawn from it their most beautiful imagery, and Sbakspeare has companed a beautiful woman that is cut off in the bloom of life, to a rose that dies as soon as it has grown to perfection. Now the honeysuckle, streaked with white and red, flaunts its sweet flowers in the hedgerows, and the golden marsh-flag throws its sunny shadow upon the streams and pools which it ornaments, overtopping its chaste companion the blue forgetme-not—that little flower

Whose very name is Love's own poetry Born of the heart, and of the eye begot, Nursed smid smides and sighs by Constancy, And ever saying, "Love, Forget-me-not."

The red poppy also begins to bloom, and the large white and yellow lilies to diaplay their flowers, and the Canterbury-bell is hung with its beautifully urnshaped azure cups. The white water-lily, the fairest lady of the lake, now rears

her head above the piled velvet of her leaves, and looks down into the clear

her head above the piled velvet of her leaves, and looks down into the clear water, in which is mirrored the image of her beauty. In the forest the fern already throws out the dark green shadow of its overhanging leaves, and Summer is everywhere festooning her lofty halls with leaves and flowers.

Towards the end of this month that pleasant rural occupation, hay-making, commences. The eye is first drawn towards the scene by the sharp rasping sound the mower makes as he whets his scythe, and while we pause and look on, we see at every sweep of his sinewy arms the field-flowers, the pride of Spring, laid prostrate; swathe upon swatbe is turned over, and through the fallen and bladed grass peep the golden butterenp, and the spotted cowslip, the rounded crimson of the clover, and the snow-white rim of the daisy, and long before the evening Sun has sunk down into the west, their beauty has perished for ever. Onward goes the destroyer like death, with his scythe in his hand, hewing down all he approaches without distinction, and leaving them ridge upon ridge to be piled into windrows until the field is at last filled with rounded hillocks, graves nuder which the flowers of Spring lie dead and buried; but still throwing a ricb perfume upon the air, which tells how fair and sweet were those pretty daughters of the earth and sky that sleep beneath. Pleasant is the creaking sound of the hay-waggons, as the wheels roll smoothly along the new-mown fields, down grassy lanes which both wan and horses are mirrored, and where the driver and the steeds keep pace, step for step, as they "move double" with those below, on their way to

where the half-piled rick is seen on the opposite hank; and ever from where the grass still stands uncut, comes the loud crake of the landrail, still heard at the same distance, however near we may draw, for the bird seems to glide as noise-lessly through the verdnre as an eel does along the water.

Sometimes during our ramhles heside the river in this pleasant month, we may catch a glimpse of the otter in pursuit of its prey, now stemming the rapid current, and breaking the foam-hells amid the eddies, as he swims to and fro, then darting down in the direction of the stream with the rapidity of an arrow, or again disappearing in the twinkling of an eye, and, ere one can number twenty, rising up at an immense distance from the spot where it went down, and hearing a down in the direction of the stream with the rapidity of an arrow, or again disappearing in the twinkling of an eye, and, ere one can number twenty, rising up at an immense distance from the spot where it went down, and hearing a large fish in its jaws, as it cleaves its way towards the shore; when heginning at the head, it quickly eats its way down to the tail of the fish, until the whole is devoured. The attitude of the otter in water is really heautiful; its short legs and weh-footed feet, its long flattened hody, and hroad tail by which it can steer Itself in any direction it pleases in a moment, together with its hroad flat head, are all admirably adapted for swimming, and enable it to turn aside and float as rapidly under the water as when on the surface—frequently, while under the river, it will drive a shoal of fish towards the shore, narrowing the circle every time it swims round them, until, finding they cannot escape, they throw themselves out of the water, and hecome an easy prey to their pursuer. Sometimes, heside a quiet stream, you come unaware upon the little water-shrew, as it cars itself gently along, its black glossy hack shining like velvet, tooking, after it has dived for a moment, as if it was covered all over with heautiful white pearls, then in an instant as smooth, and dry, and glittering, as if its silken coat had never touched the stream. When alarmed, it either rushes into its little nest, or plunges to the hottom of the water for safety, although, if you watch narrowly, it will not he long hefore you see its little sharp snout and long whiskers peeping out ahove the surface; for it is compelled to re-appear quickly, and draw in a fresh supply of air. In heautiful contrast to its deep glossy hack, its under parts are of the cleanest and clearest white; and while it swims, its smooth silky sides seem to hroaden out, and its tail to shift suddenly as it turns ahout in its rapid motions, in pursuit of the insects that feed upon the aquatic plants, so that it is almost impossible for the

pearing with the Spring. Nor must we pass over the heauty of the grasses which are now in flower, many of them drooping and rising in the richest forms of silken tracery, plumed and pendent, here running out into the form of a heautiful hranch, there resembling the most graceful foliage; and when hrought home and examined apart from the gaudier-looking flowers, many will he astonished at the silken heads of the graceful quaking-grass, and the floating plumage of the downy-feather grass, and many another which for delicacy of tint, and heauty of form, are worthy of being placed heside the fairest flowers that grace our garden borders.

den borders.

At the close of this month the "green-robed senators of mighty woods" are clothed in all the beauty of their Summer array, and those who wish to know what the gloom and silence of a full-leaved forest is, should penetrate its shades before the end of July, when the whole scene is shadowed with its deepest Summer verdure. They will then see in what graceful forms the dark masses of foliage hang, what heautiful effects of light and shade are to he found amongst the trees—here an impenetrable wall of hranches, dark as the grave; there, the whole side of a long range of trees, fluttering in a sunlight of golden green, and descending into hues of hronzy brown, until all below fades into the deep purple hue of twilight; excepting where, bald and hare, the silver light streams down from a white and fleecy cloud, and falling upon the trunk of some giant tree covered over with hoary lichen, gives to the mighty mass a dazzling and silvery hue.

For this is

Nature's ancient cathedral, where
The lute-voiced birds—burst of the summer band—
Green-hooded nuns, 'haid the blossoms sing—
Their leafy temple gloony, tall and reaven's own hand.
Pillared with oaks, and roofed with Heaven's own hand.
Hark how the anthem rolls i shrough arches dun,
"Morning sgain is come to light the land."
The great world's Comforter, the mighty San,
Haih yoked his reatless steeds the golden race to run.

The pale gold of the woodbine, and the pearly blossoms of the trailing hramble, mingled with the drooping crimson of the fox-glove, and the dazzling sunshine of the gorse, throw their heautiful masses of colour upon the green or the underwood, and lie in bright relief beneath the vaulted gloom of the overhanging branches—and sometimes you hear the lowing of cattle amid the deep umbrage, or the jingling of sheep-bells in the remote distance; sounds that come like a cheerful voice amid the silence and solitude of the forest; and sometimes you find yourself standing

Under an oak, whose antique root peeps out Upon the brook that brawls along the wood.

And in such a spot, with a volume of Chaucer or Spenser, Shakspere or Milton, or any other, out of a hundred names that tremble upon the point of our pen, the hours will glide happily away, and the intellectual wanderer pine for no other companiouship.

The whole face of the country now wears a most beautiful appearance; here the corn is already beginning to show its ears, there the meadows are mown and cleared away—further on, the grass still stands in all its rich luxuriance of flowers. The tall bugle is in full bloom—and all the orchises, from those that resemble the bee to the hutterfly, are in blossom, looking as if they were weighed down by the crowded insects from whence they derive their names.

the crowded insects from whence they derive their names.

Both in Summer and Winter, all who have narrowly observed the changes of the seasons, must have heen struck by the ahundant moisture found under trees. Pace only a common footpath, dry, high, gravelly or sandy, on a frosty morning after the sun has shone for an hour or so, and wherever a tree overhangs your walk, there, the ground is saturated with wet, while all beside is comparatively dry. So it is in June—in foggy weather, beneath the trees the road is a perfect puddle, when all the land around is dry as a desert, especially if it is covered with ivy. In hilly countries too, we find ponds, which are not overhung with toliage, empty and dry, while others which are shaded with branches, that are filled with water, and nearly everywhere is this the case, unless the pools draw their supplies from springs. Those who travel in the night are well acquainted

with the quantity of moisture which descends in the form of dew or fng, and that scarcely leaves a trace of its "whereahout," excepting on the trees and plants, an hour after the sunrise.

Moist and damp places naturally call up the figures of frogs and toads, "nasty things," as pretty mouths are in the habit of puckering up and calling them. I will not argue that they are the most agreeahle-looking objects, nor very likely to he made pets of, though this has been done hefore now, and by ladies too. All I wish to prove is, that they are perfectly harmless, and inoffensive. They are heautiful leapers and expert swimmers, and I am sure I have seen frogs occupation of the same and the same and the same and the same and the same and the frog wear. Nor is there a more useful creature in a garden than a toad—he is unequalled as a destroyer of worms and insects, and may he rendered so tome that he will take his food out of the hand of his keeper; as to its heing pulsonous that is a foolish idea, long since exploded. Watch a toad when it is about to seize upon an insect, and its method of attack will astonish you—the lisect is, perhaps, motionless, when it first arrests the eye of the reptile—the toad sees it, and hecomes motionless, also, its head drawn hack and its eye fixed and bright sa a star. The insect moves, and is gone, how you know not, so rapid is the action, but the same and the same and the seat detection, but the same and the same and the same as a star. The insect moves, and is gone, how you know not, so rapid is the eatleten, but the same and the same as a star. The insect moves, and is gone, how you know not, so rapid is the action, but the same and the same as a star. and hecomes motionless, also, its head drawn hack and its eye fixed and bright as a star. The insect moves, and is gone, how you know not, so rapid is the action, that, however narrowly you might watch, you could not see the toad strike it with its tongue—a touch, a motion quicker than human sight, and the prey disappears. Few animals have more persecutors than the poor frog; little or hig it is either the prey of hird, heast, or fish, as if it was only created to he devouted. Surely it ought to meet with mercy atour hands, for, according to the theory of the author of "Vestiges of Creation," it is more nearly allied to us than "we wot of, and Esop it will be remembered made it long ago an eloquent pleader against persecution. For my own part I have always made it a rule during my walks. and also it will be remembered made it long ago an eloquent pleader against persecution. For my own part, I have always made it a rule during my walks, either to step aside, or wait until either the poor heetle or frog have got out of my way, or else to lift them amongst the grass, where I thought they would be safe, but never to kill either the one or the other wilfully upon its own freehold. The toads are such venerable old hermits, too; living, nothody cau tell how long, in the hollows of trees, and blocks of stone, and deep down in dark coal pits; and, like the fly in amher, sadly puzzling our poor ingenuity to tell how ever they came

there at all.

In a work which has just fallen into my hands, entitled "Illustrations of Instinct deduced from the Hahits of British Auimals," there are some striking instances almost proviog that animals are gifted with a reasoning power, which, though inferior to that of man, clearly shows that they at least form a link in that great intellectnal chain which extends from the created to the Creator. I have not sufficient space to do more than recommend this interesting book to all lovers of Nature. The following extract will go far to prove that, what to the human eye may appear useless or unnecessary, will he found to answer a wiscr end than that of mere ornament; and I am sure my readers will look upon the gaudy plumage of the peacock with other thoughts than that it is nothing more than a "Inxuriance of Nature," after reading the following hrief extract: —

"The tail of the peacock is of a plain and humble description, and seems to he of no other use hesides aiding in the erection of the long feathers of the loins; while the latter are supplied at their insertion with an arrangement of voluntary muscles, which contribute to their elevation, and to the other motions of which

while the latter are supplied at their insertion with an arrangement of voluntary muscles, which contribute to their elevation, and to the other motions of which they are capable. If surprised by a foe, the peacock presently creets its gorgeon, feathers; and the enemy at once beholds starting up before him a creature which his terror cannot fail to magnify into the bulk implied by the circumference of a glittering circle of the most dazzling hues, his attention at the same time being distracted by a hundred glaring eyes meeting his gaze in every direction. A hiss from the head in the centre, which in shape and colours resembles that of a serpent, and a rustle from the trembling quills, are attended by an advance of the most conspicuous portion of this bulk; which is in itself an action of retreat, heing caused by a receding motion of the body of the bird. That must be a hold animal which does not pause at the sight of such an object; and a short interval is sufficient to ensure the safety of the hird; but if, after all, the enemy should be hold enough to risk an assault, it is most likely that its eagerness or raze would he spent on the glittering appendages, in which case the creature is dive sed only of that which a little time will again supply. A like explanation may be offered of the use of the long and curious appendages of the lead and neck of various kinds of humming-birds, which, however feeble, are a pagracious race."





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21	w	ANNIVERSARIES, OCCUR-	-		SUN.		— II		M	OŐN.		1				ONLIGHT.	AT LOND	WATER N BRIDGE	EQUA-	of car.
D	D	RENCES, FESTIVALS. &c.	Ri	SES.	SETE.	DECLI		RISES		UTHS.	SE		Before Sun	rise.	Age.	O'Clock.		1	OF TIME.	Day the Y
	_		II			Sour	тн.	Mornin	<u> </u>	crnoon	After		1h. 2h.	3h.	इंग्	9h. 10h. 11h.	Morning	Afternoon	Adá.	1.5
1	S	Regulus sets at 10h, 31m. r.m.	3	50	н. м. В 17	Deg. 10	6	н. м 4 4		. м.) 35	и.	м. 21					B. W		м. в. 3 30	183
2'	S	2ND S. AFT. TRIN	3	50	8 17	23	2	5 4	9	31	9	3			5 -		2 45	3 10	3 42	184
3	M	Dog Days begin	3	51	8 16	22	57	6 5	8 2	2 24	9	381			$\bar{3}$		3 30		3 53	185
4	Tu	Trans. St. Martin.	3		8 15	22	59	8		3 14		7			<u> </u>		4 15		4 4	186
5	W	Oxford Act, and Camh.			8 14	22	16		6		10	34	44				4 55	1	4 15	187
(-)	Tir	Old Mids. Day	3	- 1	8 14	00	40		2 4		10	59					5 35		4 25	188
7	F	Camb. Term ends	3	7. 21	8 13	22	40			5 29	11	99		144	0 _				4 35	189
8	S	Oxford Term ends		- 0		~-	04		1		11	45	444		I_{-}		6 20		4 4 4	
0			4 f =		8 13		27	Afterno		$\frac{12}{2}$		45		Me)) _		7 5		4 44	190
10	S	3RD S. AFT. TRIN. Spica Virginis sets 11h. 15m.	3		8 12		20			5 55	Mor	ning	The same of the sa	1412			7 55	1 1	4 53	191
10	M	P.M.	U		8 12	22	13		4	7 39	0	10			\mathbf{O}		8 55		5 2	192
11	Tu	Old St. Peter	3	- 1	8 11	22	5			3 25		38	444				9 55	10 25	5 10	193
12	W	Antares souths 8h 57m. P M.	4	0	8 11	21	56	4 3	35 9	9 - 12	1	9			24		1100	11 30	5 17	194
13	Тн	Alpha Lyræ souths 11h, 4m	4	1	8 10	21	48	5 3	31 10	9 1	1	46			.3		No Tide.	At Noon.	5 25	195
14	F	Length of day, 16h. 7m.	4	2	8 9	21	38	6 2	23 16	51	2	28			4		0 25	0 50	5 31	196
15	S	St. Swithin	14	3	8 9		29	7 1	21	1 43	3	19			5		1 15		5 38	197
16	S	4TH S. AFT. TRIN.	4	4	8 8		20	7 5	4 M	orning	4	17					1 55	-	5 43	198
17	$\widetilde{\mathbf{M}}$	-a memorable day in the	1	5		21	9			34	1 .	20			7		2 35	1 1	5 48	199
18.	Tu	—a memorable day in the Turkish Calendar, heing the heginoing of the Hegi-	4	6			58	0	3	1 26		28			B		3 13		5 53	200
19	W	Prs. Aug. Camb. b.			8 5		48	9 3		2 17	7	40			9		3 52		5 57	201
20	TH	Margaret	4			$\frac{20}{20}$	37		1	3 8	8	55			20				6 1	202
21	F	Gamma Aqui'æ souths 11h.	4	1	-	20							- - -		21		4 30	1	0	
22		38m PM.	4	- 1		20	25		- 1	3 58	10	8			$\overline{22}$		5 10		1 1	203
	S	Maydalene	4	11	8 (20	13		-1	4 49	111	23					5 55		6 6	204
23	5	5TH S. AFT. TRIN.	1	12	7 59	20	1	11 2	26	5 41		20011	- -				6 45		6 8	205
24	M	[Camb. b. 1797	4	13	7 57	19	49	Morni	ag (6.35		54					7 40		6 10	206
25	Tu	St James. Duch.	4	15	7 56	19	36	0	2	7 30	3	8	·		26		8 45	9 20	6 11	207
26	W	St Anne &	4	16	7 54	19	23	0 4	14	3 27	4	16					9 55	10 30	6 11	208
27	$T_{\rm H}$	Revolution in Pa-		18	7 53	19	9	1 3	32	9 24	5	18		I	27		11 10	11 50	6 11	209
28	F	ris, 1830, lasted three days		19	7 51	118	55	2 2	28 1	0 22	6	12		777	8		No Tide	0 20	6 10	210
29	S	Beta Aquilæ souths 11h 27m.	4	21	7 50	18	41	3 3	31 1	1 18	6	58		4			0 50	1 20	6.08	211
30	S	6TH S. AFT. TRIN.	4	23	7 48	8 18	27		39 Af	ternoor	1 14	38		3,44	100		1 48		6 6	212
31	$\widetilde{\mathbf{M}}$	Alpha Aquilæ souths 11h. 4m.	4	24	7 40	518	12	. 5 4	15	1 4		10			1		2 3			213
		r m.	1 4						- 17			- 01								,

JULY.

THE SUN is in the sign Cancer till the 22nd; on which day at 7h. 8m. p.m., he enters the sign Leo (the Lion).

On the 1st, he is 96,595,000 miles from the Earth, being at his greatest distance on this day during the year.

On the 1st, he rises 3° N. of the N.E. hy N., and sets 3° N. of N.W. by N.; on the 20th, he rises N.E. hy N., and sets N.W. by N.

He souths out the 1st, at 3m. 30s.; on the 15th, at 5m. 38s; and on the last, at 6m. 4s. after noon (commou clock time); at an altitude of 61° on the 1st; of 599° on the 15th; and of 563° on the last day.

Tae Moor rises between 4h. A.M. and noon, from the 1st to the 7th; hetween noon and midnight, from the 8th to the 24th; and hetween midnight and 6h. A.M., from the 25th to the 31st. She sets hetween 8h. p.M. and midnight, from the 1st to the 8th; between midnight and noon, from the 9th to the 23rd; and between noon and 9h. p.M., from the 23rd to the 31st.

She is in the constellation of Gemini out the 1st: in Cancer, on the 2nd; Leo on the 4th, 5th, and 6th; in Virgo from the 6th to the 9th; Libra on the 10th, and 11th; Ophinchus on the 12th and 13th; on the boundaries of Sagittarius and Aquila on the 14th, 15th, and 16th; in Capricornus on the 17th; in Aquarius on the 18th and 19th; in Pisces on the 20th; Cetus on the 21st; Pisces on the 22nd; Cetus on the 23rd and 24th; Taurns on the 25th, 26th, and 27th; Gemini on the 28th, and 29tb; Cancer on the 30th; and Leo on the 31st.

On the 1st she is 55° bigh, when she souths; is on the Equator on the 7th; at her lowest point on the 14th, being 20° high when she souths; is on the Equator again on the 21st; and on the 27th attains her greatest altitude, being 19° above the horizon when she souths.

She is near Juniter and Mercury on the 2nd; Mars on the 3rd; Saturn on the means and the surface and Mercury on the 2nd; Mars on the 3rd; Saturn on the means and surface and Mercury on the 2nd; Mars on the 3rd; Saturn on the means and surface and Mercury on the 2nd; Mars on the 3rd; Saturn on the means and surface and Mercu

the notizon when she souths.

She is Full on the 16th, and New on the 30th, but without an eclipse at hoth times.

She is near Jupiter and Mercury on the 20d; Mars on the 3rd; Saturn on the

21st; Mercury on the 29th; and Jupiter and Venus on the 30th.

Mercury is in the constellation of Cancer till the 22nd, and in that of Geminl

He sets on the 1st at 9h. 19m. P.M.; on the 5th at 9h. 0m. P.M.; and these He sets on the 1st at 9h. 19m. F.M.; on the 5th at 9h, 0m. F.M.; and these times are 1h. 2m. and 0h. 44m. after the Sun has set; and, therefore, to this time he is favourably situated for observing him; and he sets at the W N.W. point of the horizon. Between the 1th and the 23rd, he both sets and rises nearly at the same time as the Sun rises and sets. On the 26th he rises at 3h. 44m., and on the 31st at 3h. 17m.; and these times are 32m. and 1h. 7m. before the time of Sun rising respectively; therefore, towards the end of the month, he is again favourably ituated for observing hefore sunrise. He is stationary at the beginning; moving westward about the middle; and stationary again among the stars at the end of the month. He is in inferior conjunction with the Sun on the 19th; and near Jupiter and the Moon on the 2nd. His motion among the stars, and his relative position to Venus and to Jupiter, are shown in the annexed diagram. relative position to Venus and to Jupiter, are shown in the annexed diagram.

PATHS OF MERCURY, VENUS, AND JUPITER, IN JULY, 1848.



Scale, 10 degrees to one inch.

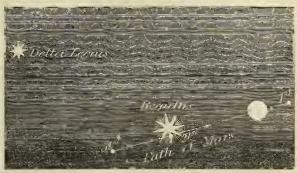
VENUS will be in the constellation of Gemini till the 17th, and in that of Cancer from the 17th to the end of the month.

She is a morning star till the middle of the month, and an evening star after

She is a morning star till the middle of the month, and an evening star after that time; but during the month she will be in the neighbourhood of the Sun, so as to be visible only for a short time in twilight. She rises on the 1st at 3h. 20m. A.M.; on the 15th, at 3h. 49m. A.M., near the E.N.E.; and, on the last day, she sets at 8h. 1m. P.M. near the W.N.W. She souths on the 1st, at 1h. 38m. A.M.; on the 17th, she passes the Meridian at the same time as the Sun; and on the last day at 0h. 17m. P.M.; at the altitude of 62°, on the 1st; of 61°, on the 15th; and of 57° on the last day. She is near the Moon on the 30th; and on the 20th, she is in superior conjunction with the Sun. On the 24th day, the two Planets, Jupiter and Venus, are very near together. (See the preceding diagram.)

Mass will be in the constellation Leo throughout the month. He is an even ing star, and sets midway hetween the N.W. by N. and the W.N.W. at the heginning; near the W.N.W. at the middle; and midway hetween the W. by N. and the W.N.W. at the 1st, at 32m. P.M. on the 1st, at 31 h. 33m. P.M. on the 1sth; at 31 h. 33m. P.M. and, on the 21st, he is very near Regulus. His path among the stars during this month is shown in the annexed Engraving; his appearance is nearly that of a circle, and he appears small, as is also exhibited in the same Engraving.

PATH OF MARS IN THE MONTH OF JULY, 1848.



Scale, 10 degrees to one inch

JUPITER will be in the constellation Cancer throughout the month.

He is visible during the evening twilight, near the N.W. hy W. point of the horizon, till ahout the middle of the month; and from this time to the end, he rises, souths, and sets, very nearly at the same times as the Sun rises, souths, and sets, and, consequently, he is not visible. His motion among the stars is Eastward. He is near the Moon on the 30th, and near Venus on the 24th. (See the preceding diagram.)

preceding diagram.)

SATURN will be in the constellation Pisces. He is visible from before midnight till nearly Sunrise. He rises at the same place as in last month; on the 1st, at 11h. 21m. p.m.; on the 11th, at 10h. 28m. p.m.; and on the 30th, at 9h. 27m. p.m. He souths at 4h. 14m. A.m., on the 15th; and sets at ahout 10h. A.m. He is stationary among the stars at the heginning, and he moves very slowly Westward among them at the end of the month. He is near the Moon on the 20th. His ring is still invisible: the Sun illumines the side of the ring opposite to that on which the Earth is situated during this month.

URANUS rises near E. by N., at ahout midnight on the 1st; at 11h. 6m. on the 15th; and at 10h. 3m. on the 31st. He souths on the 15th, at 5h. 50m. a.M., at an altitude of 45°.

(Continued from June, relative to Saturn's Ring.)

the ring, which they will be in January, 1848, at which time the southern side of the ring will hegin to be visible, and the same phenomena will be repeated, with respect to it, till it arrives at the position G, where the southern side of the ring is the most open. It will he in this position in 1855. The ring, after this time, will contract, and disappear, as hefore, at A.

- ig	Length of Day, or	Number of Hours and	Time of		JUPITER'S SATELLITES.	OCCULTATI	ON C	OF STARS BY THE MO	ON.
Days of the Month.	number of	Minutes the	Day break, or beginning of Twilight.	Time o. Twilight Ending.		Names of the Stars.	Magni- tude.	Times of disappearance and re appearance of the Star.	At the dark or hright limb of the Moon.
1 6 11 16 21 26 31	H. M. 16 27 16 20 16 12 16 4 15 53 15 38 15 22	H. M. 0 5 0 12 0 20 0 28 0 39 0 54 1 10	H. M. No real constant Tv	H. M. Night, but vilight.	Are not visible, Jupiter being too near to the Sun.	Theta Libræ Rho 2 Sagittarii A. S. C. 2270 85 Ceti Aldeharan	4½ 5½ 6 6 1	D. H. M. 11 8 57 P.M. 11 9 30 " 15 7 58 " 15 9 10 " 16 0 41 A.M. 24 1 29 " 24 2 4 " 26 1 3 "	Dark Bright Nearly full Moon Nearly full Moon Bright
				11 1	RIGHT ASCENSIONS AND	DECLINATIONS OF	THI	PI ANETS	

	1 0	}		RIGH	T ASCEN	ISIONS A	ND DEC	LINATIONS	S OF T	HE PLA	NETS.		
TIMES OF CHANGES OF THE MOON,	the .	MERC	URY.	VEN	VUS.) MA	RS.	JUPITE	ER.	SAT	URN.	URA	NUS.
And when she is at her greatest distance (Apogee)													
or at her least distance (Perigee) from the Earth	Mo M	Right	Declina-	Right	Declina.	Right	Declina-	Right -	Declina-	Right	Declina- tion	Right	Declina- tion
in each Lunation.	a	Ascension	tion North	Ascension	North.	Ascension	North.	Ascension	North.	Ascension	South.	Ascension	North.
FIRST QUARTER SD. 9H. 30M. A.M.	1	8h. 17m	18° 11'	6h. 16m	23° 39′	9h 11m	17° 33′	7h.55m 2	21° 13′	23h. 46m	3° 52′	1h 22m	8° 0′
FULL MOON 16 9 21 A.M.	6	8 19	16 47	6 43	23 32	9 23	16 36	8 0 2	21 0	23 46	3 52	1 23	8 2
LAST QUARTER . 23 11 28 A.M.	11	8 13	15 54	7 10	23 7	9 35	15 36			23 46	3 54	1 23	8 4
New Moon 30 7 25 A.M	16	8 1	15 41	7 37	22 25	9 48	14 33			23 46	3 57	1 23	8 5
APOGEE 10 3 A.M.	21	7 47	16 9	8 3	21 26	10 0	13 28			23 46	4 0	1 23	8 6
PERIGEE 25 5 A.M.	26	7 37	17 7	8 29	20 12	10 11	12 21	8 19 2	20 6	23 45	4 5	1 23	8 6



To our cars, excepting the songs of the birds, one of the sweetest of summer sounds has been the bleating of sheep, and the distant jingling of their bells, mellowed by the distance, and softened by an intervening river, or a green pastoral valley that went winding round the foot of the hill, on which the flock was grazing. Sometimes, loitering along a stream, we came to a cool spot, where the overlanging trees threw down their pleasant shadows; and in the water, and along the banks, were sheep moving every way, for it was the great sheep-washing day, and nearly all the villagers were assembled. From within and without the wattled-fence, along the brook, and by the neighbouring harns, you hear the Greamy bleating of the sheep, as they call to, or answer each other—while the lambs keep up a continuous "haa," plaintive and piteous, and are quite at a loss to discover their dams among the dripping and noisy flock that are congregated on the opposite bank. There you see the swarthy and sun-tanned sons of the soil, standing mid-way in water, their sleeves turned up, and their hare sinewy arms

half huried in the woolly fleece of the sheep they have clutched, and which, by main strength, they souse head over ears; and no sooner is the sheep released from the hands of the first washer, and swimming towards the shore, than it is eaught by a second—has another hug and a souse—is passed to a third, and then the ablution is complete. It then lands among its drenched companions, and they seem to condole with each other, and to ask, in their way, "What is this for?"

for ?"

Nor is such a scene without its harmless merriment. You see some sturdy little fellow grappling with a great overgrown sheep, which he maoages to get to the edge of the water, when overhead they go together, to the great amusement of the bystanders—it being almost difficult to decide which has the silliest look of the two, the sheep or Jack. The peasants on the bank, the white flock contrasting with the green trees ahove, and the velvet sward below, the hright water, in which the whole picture is mirrored, the village-spire seen heyond the trees, a

grey thatched cottage here and there breaking through the openings of the foliage—all make up one of those quiet English pictures, which we ever, through the "mind's eye," recal with pleasure, when we are miles away from the spot. Sometimes, we come unaware upon a heautiful village, that stands partly within the entrance of a wood, for so thickly are the outskirts covered with trees that it is difficult to tell where the wood hegins in such an emhowered and parkthat it is difficult to tell where the wood hegins in such an emhowered and parkilike landscape. In such a scene as this, sheep-washing forms so sweet a picture that we envy the power of an Inskipp or a Collins, and sigh hecause we cannot carry a sketch of it away with us. The cottage-roofs and chimnies are covered with rich liver-worts, fungi, and lichen, of every gorgeous hne, that harmonize heautifully with the stems of the surrounding trees; yet are just rendered distinct enough, by a white-washed or red brick wall, the sunlight that fells upon a diamond-paned window, or the smoke circling up, grey or blue, amid the green, to tell us that many a peaceful English home is nestled amid that "land of ancient trees." In such a spot, you fouldly dream that old customs are still kept up—

to tell us that many a peaceful English home is nestled amid that "land of ancient trees." In such a spot, you fondly dream that old customs are still kept up—sheep-shearing feasts and harvest-homes, such as we read of in the Holy Bible, and such as David himself witnessed on the sunny slopes of Palestine. It is now high Summer everywhere; in the deep woods and heneath the shady hedge-rows, in dell and dingle, where a twilight reigns at noon-day, her warm hreath has penetrated, and her growing showers fallen. Wherever a root lay buried, or a tiny branch was hidden, there she has been, and hung them over with leaves and flowers; for it mattered not to her whether the eye of man fell npon her beautiful workmanship. There the red fox-gloves bang out their speckled hells; while, overbead, the woodbine throws its trailing hanners of foating green, and pale and ruddy gold. By the water-course, we inhale the fragrence of the meadow-sweet, that mingled aroma of hawthorn buds and new-mown hay—for such is the perfume with which this Queen of the Meadows enriches the grance of the meadow-sweet, that mingled aroma of hawthorn buds and new-mown hay—for such is the perfume with which this Queen of the Meadows enriches the passing breeze. Then, over all, comes that drowsy overpowering fragrance from a hean-field in full blossom, the very smell of which conjures up images of the fields of Enna and Proserpine among the flowers, which, affrighted, she let fall. On the hanks and the hedges, the gracefully-formed convolvulus climbs and twines; and, in the fields, up the tender grasses, the same heautiful flower rears its pinky head, as it enwreathes the stems, and throws out its delicate scent. The hriony, too, throws round everything it comes near its glossy trails, winding quite a contrary way to the convolvulus, as one turns towards the sun, and the other from it. Wherever the eye alights, the ground is covered with flowers, many of them entirely different from what we saw enamelling the banks and other from it. Wherever the eye alights, the ground is covered with flowers, many of them entirely different from what we saw enamelling the banks and waysides at Spring, and looking as if Summer was at a loss which to wear upon her hrow, amid such a profusion of beautiful wreaths;—sometimes growing in spots where

The silence there by such a chain is hound, That even the busy woodpecker makes stiller by ber sound The inviolable quietness—

little nooks, where, ahove our heads, the grey clouds sail away to the far-off hills, as if they were hurrying off to other worlds heyond the horizon, and had only deigned to look down for a moment upon the lovely valley, in which we were idly resting, while looking at the flowers; spots which seem shutout from the world, as if the silence were never disturbed by anything londer than the murmuring of the stream, the rustling of the leaves, or the faint low whispering of the russet-coloured grasses—where green things only grow and wave. For now but few hirds are heard, though all are not yet silent—the nightingale has ceased to sing; the cuckoo has left us; and, excepting in the cool morning hours, or when the evening shadows hegin to lengthen, we hear not that woodland hurst which went sounding through the flower-opening April, and the hawthorn-hreathing May; for in the hurning noons of July—

No warhling tongue
Then talked unto the echo of the groves,
Only the curled streams soft chidings kept,
And little gusts, that from the green leaves swept
Dry Summer's dust, in fearful whispering stirred,
As loth to waken any warbling bird.

Only the grasshopper—that' sweet prophet of the summer"—as old Anacreon fled it—keeps up "a coil" among the green leaves that shelter it when called it-keeps up

All the hirds are faint with the hot sun, And hide in cooling trees.

Often while looking for summer flowers in the hedge-bottoms and among the ditches you will discover the little hedgebog foraging for insects or snails, and if he find he has not time enough to escape he will roll himself up in a hall with his find he has not time enough to escape he will roll himself up in a hall with his round hristly coat, like a person who is resolved to stand his ground and meet the worst, whatever that may he, until finding, as he thinks, the danger over, he will again uncoil himself and resume his task, searching for frogs, toads, or even mice; for it is only in such shady places that you will meet with him in the day-time, as his favourite feeding time is in the night. What naturalists assert about its sleeping throughout the whole day is not true, as I, myself, captured now while feeding under an old hedge in Thonock-lane, near Gainshorough, non summer afternoon, tied it up in a handkerchief, brought it home, and kept it a long time on bread and milk, vegetables, or whatever came to hand, for scarcely anything came amiss to it. It is true that it sleeps throughout the winter, but, unlike the dormouse, it is not liable to he wakened by an occasional fine day, neither does it lay up any store of food; but, rolled up into a perfect ball which you might throw many yards without the animal once uncoiling itself, it sleeps securely through frost, snow, wind, or rain, in its little nest, heneath the hollow root of a tree, or some old rabbit burrow in a hole of the bank.

seemely through frost, snow, wind, or rain, in its little nest, heneath the hollow root of a tree, or some old rabbit burrow in a hole of the bank.

The early garden fruits are now in great perfection—the glossy hlack currant that hangs like rounded beads heneath its covering of friggrant leaves; the huge gooscherries that scarcely can contain themselves for very ripeness within their glittering green, or red and hairy husks; red and white currants that hang like coral and pearl pendent and gracefully from their hroad-leaved houghs; and strawberries that hide under every leaf they can find to shelter them, are all ripe, and ready for the Inscious hanqueting table of Summer.

Now one of those rural nictures which artists in almost all ages have tried

for the Inscious hanqueting table of Summer.

Now one of those rural pictures which artists in almost all ages have tried their hands npon, may frequently he seen where a clump of trees overhangs a pond, a stream, or some quiet shadowy pool which the sunheams can scarcely penetrate. In such a spot may a group of cattle of various colours frequently he seen, standing almost motionless, excepting for the lashing of their tails to and fro, to drive away the swarm of buzzing insects, which are incessantly hovering around and alighting upon the horned herd.

They stand
Each in his place, save when some wearied beast
The pressure of the crowd no longer brooks,
Or, in more vagrant mood, her station quits,
Restlots.

The rye now wears a ripe and yellow look, and the horned harley makes a rustling sound, as its long plumy ears are hlown together by the hrecze. A white and quivering light plays over the pendulous oats, and the green upon the wheat

hecomes whiter and paler every day—all silently proclaiming that the time of harvest is near at hand. The little mole-bills are purple and fragrant with the aromatic odours of the wild thymo, and the rich heath, the Summer livery of treeless hills and mountains, now looks like a crimson carpet which Nature has spread out for the honey-gathering bees to walk upon. All these, which are stretched out in countless millions before the eyes, scarcely do more from their very profusion than arrest the passing glance for a momeut. Yet let us take any one, no matter bow common, and examine it minutely, and we shall he strnck by the grace and beauty of its form. Even the wayside elder, that throws its flowers over almost every stagnant ditch and dusty hedge, whose cleam-like hunches of flowers we just glance at, and then pass on, if examined separately, will be found beautifully constructed: draw off a separate hlossom, place it upon the palm of the hand, and you will see a marble-looking tripod, standing upon its ivory feet, and presenting an exquisite concave, a five-starred cup of pearl, as chaste in shape as ever emanated from the hand of a Grecisn sculptor—a beautiful form which the haud of man has not yet imitated, and such as strikes but the chaste in shape as ever emanated from the hand of a Grecisn sculptor—a beantiful form which the haud of man has not yet imitated, and such as strikes hut the eye of the poet, as he lies idly dreaming upon the grass, picking up, in his indo-lent mood, the nearest buds which the hreeze hlows within his reach. Nor is there a more heantifully-marked flower in the garden, than the pencilled geranium that grows wild, or any flower that wears a more delicate golden hue than the yellow, wild, wayside snap-dragon.

In green lanes and quiet shady places the hlne speedwell is still seen lingering, as if loth to shake off its azure flowers; as if it still stood listening to the lisping of the young birds which were beginning to climh and flutter among the green hedgerows. The centuary, with its pink-starred flowers, now also puts forth its elegant bloom; and the tall wood hetony heaves up its rich rose-head blossoms ahove the scarlet cup of the time-keeping impernel, which opens its lowly hut

ahove the scarlet cup of the time-keeping pimpernel, which opens its lowly hut dazzling flowers at its feet.

When the streams are low through the summer droughts, many curions insects may he seen in the water, which would escape the eye when the runnels are swollen with the rains of Winter and Spring. Some of these form curions babitations of stones, sbells, bollow seeds, straws, even mnd and small particles of wood, which they cement together, forming a vaulted roof, or pent-bouse, over their heads, and with their huildings on their hacks they move about in the little world for which Nature has adapted them, accomplish the ends for which they were created, and then die. Amongst these, stand foremost the caddis-worms, which compose the little cube-like cells they inhahit, out of stones, with all kinds of irregular angles, and such as would haftle the skill of any human architect to fearer with all kinds also hat had been to the little work. The creater being the composition of the contraction of irregular angles, and such as would haffle the skill of any human architect to fasten together. Yet, all this is done hy the little caddis-worm. The smooth side of every stone is placed in the interior, and the whole mass secured together hy a cement which the water has not the power to dissolve. Even the portion of the body of the worm which is exposed, is hard and firm, while that part which the cell covers is soft; for so has Nature defended this curious insect. To an unpractised eye, the whole of this wonderful structure would present only the appearance of a piece of reed or straw, which the water had discoloured, while the Naturalist would find in it the little insect, and the perfect habitation formed of many a loose particle as I have described; and which is so smooth and even at the hottom that the tiny architect can move ahout with its little house upon its hack with ease. its hack with ease.

The common stickle-hack also forms a nest in which it deposits its eggs. The common stickle-hack also forms a nest in which it deposits its eggs, and covers them up. The nest is formed of minute particles of straw, or wood, is not larger round than a shilling, while the ova, which scarcely exceeds the size of a poppy-seed, is of a hright yellow colour. Another of this species, called the fifteen-spined stickle-hack, forms its nest, and deposits its ova in the sea-weds, which are found suspended from the lower parts of rocks, and which the fish hinds together by a white slender thread that resembles silk; and, wet or dry, its stands the action of the wind and sea, and keeps the eggs secure within, either when left dry or while tossed about by the violence of the waves. These eggs when left dry or while tossed about hy the violence of the waves. These eggs have frequently heen taken, placed in water, and kept until the small fry have come forth. come forth.

The seed that falls upon the ground, again to spring forth in a new form—the rounded dew-drop that feeds the flower—the withcred leaf, which the Autumnal rain decays, and forms into a rich nonrishment for the huds of the following Spring, though disregarded hyus, are all accomplishing their sileut mission, and turning round that mighty wheel "on which the seasons roll."





				1	HISTORY .	Man 45		11/	1797	119		
M	w	ANNIVERSARIES,OCCUR-	1	SUN		Y-	MOON.		DURATION O	MOONLIGHT	HIGH WATER	FQUA-
		RENCES, FESTIVALS, &c.	RISES	SETS.	DECLINA	aises.	Souths.	SETS	Before Sunrise	After Sunset	AT LONION DRIBGE	OF TIME
D	D	MENOES, PESTIVAES, ac.		1	South.	Morning	Afternoon	Afternoon	O'Clock, St. 2h 3h, 4h,	O'Clock, Sh. 9h. 10h.	Morning. Afternoon	Add.
	-		H. Di.		Deg. Min.	11 11.	н. м.	н. м.	SULL SULL SULL SULL SULL SULL SULL SULL	1 ///8////	H. M. H. M	M. 8,
1	Tu	Lammas Day. It	4 26	7 4:	17 57	$\parallel 6 59$	1 52	8 35			3 15 3 35	6 9 214
2	W	was customary on this day to offer at the alters of ca-	4 27	7 43	17 41	8 6	2 39	9 1			3 55 4 15	5 56 215
3	Тн	thedrals two young lambs,	4 28	7 42	17 26	9 11	3 23	9 24			4 30 4 50	5 52 216
4	F	from the wool of which the e nsecrated robe sent by	4 30	7 40	17 10	10 16	4 7	9 49		<u> </u>	5 10 5 25	5 47 217
1	_	the Pope to 'n'i iduals calle the pallium, was	4 30	7 30	16 54	11 18	4 50	10 13			5 45 6 0	5 41 218
5	S	m snufactured	4 99	7 95	10 54							
6	S	7TH S. AFT. TRIN.	4 05	7 07	16 37	Afternoor	5 34	10 40		4847	6 20 6 40	5 35 219
7	M	Lord It is kept as a fes-	4 35		16 20	1 23	0 19	11 9			76 5 7 25	5 28 220
8	Tu	and Greek chu ches; but	4 36	7 36	16 - 3	2 22	7 5	11 44			7 50 8 20	5 20 221
9.	W	not by the Church of Eng- land	4 38	7 34	15 46	3 19	7 52	Morning			8 55 9 30	5 12 222
10	Тн	St. Lawrence	4 39	7 30	15 29	4 14	8 42	0 23			10 9 10 45	5 3 223
-11	F	Dog days end	4 41	7 28	15 11	5 4	9 33	1 10		9	11 20 11 55	4 '54 224
12	s	_ 00 000	4 42	7 26	14 53	5 49	10 25	2 4			No Tide 0 20	4 44 225
13	Š	STH S. AFT. TRIN.	4 44	7 24	14 31	6 28		3 5			0 50 1 10	4 34 226
14		Queen Dowager born. Old		7 22	14 16	7 3	1	4 12			1 33 1 55	4 23 227
	M	Lammas Day	1	7 0/	10 75	7 94	-					
15	ΙÙ	1 0	4 47		13 3/	/ 34	0 9	5 23			$\begin{vmatrix} 2 & 15 \\ 2 & 54 \end{vmatrix} = \begin{vmatrix} 2 & 35 \\ 2 & 10 \end{vmatrix}$	4 11 228
16	W	[born, 1786]				8 2	1 1	6 38			2 54 3 10	3 59 229
17	Тн	Duchess of Kent,	4 50	17 16	13 19	8 31	1 53	7 54			3 35 3 50	3 46 230
18	F	Antares souths 6h. 31m. P.M.	4 5]	7 14	13 0	9 1	2 45	9 11		9	4 10 4 30	3 33 231
19	S	Alpha Lyræ souths 8h. 38m	4 53	7 12	$ 12 \ 40$	9 32	3 38	10 27			4 55 5 15	3 20 232
20	5	9TH S. AFT. TRIN.	4 55	7 10	0'12 20	10 5	4 31	11 42		II W	5 35 6 0	3 6 233
21	$\widetilde{\mathrm{M}}$	Gamma Aquilee souths 9b.	4 56	7 8	12 1	10 44	5 26	Afternoon			6 25 6 45	2 51 234
22	Τυ	Alpha Aquilæ souths 9h. 37m.	4 58	7' (11 40	11 29	6 22	2 7	1	3 / / / /	7 15 7 45	2 36 235
23	W	Beta Aquilæ Souths 9b. 38m	4 50	7 4		Morning	7 18	3 10		4	8 20 9 0	2 21 236
	Tin	St. Bartholomew	5	7 2	10 59	0 22	8 15				9 40 10 20	2 5 237
	1	-In 1572, 40,000 Protes-	5 5	7		11	1					1 49 238
$\frac{25}{26}$	F	tants murdered in France	0 0	-	$10 \ 39$	$\parallel \frac{1}{2} \frac{21}{24}$	$\frac{9}{10}$	4 54			117 0 11 40	1 1
26	S	P. Albert b. 1819.		6 58		2 24	10 4	5 34	7/1//2/////////////////////////////////	6 100 110 1110 1110	No Tide. 0 15	1 33 239
27	S	10th S. Aft. Trin		6 50	9 57	3 33	10 56	6 8			0 44 1 10	1 16 240
28	M	St. Augustine	5 8	654	9 36	4 40	11 45	6 37			1 35 2 0	0 58 241
29	Τυ	St. John Baptist	5 9	6 52	9 14	5 49	Afternoon	7 3			2 20 2 40	0 41 242
30	W	This day is observed in the Romish church as the day	5 10	6 49	8 53	6 55	1 17	7 28			2 55 3 15	0 23 243
31	TH	St. John the Baptist was beheaded	5 12	6 42	8 31	8 1	2 1	7 52	Marin Marin		3 33 3 50	06 5 244
-		Deneaded .			+ 3.							

AUGUST.

AUGUST.

THE SUN is in the sign Leo till the 23rd; on which day, at 1h. 38m. A.M., he enters the sign Virgo (the Virgin.) On the 1st, he is 96,390,000 miles from the Earth. On the 1st, he rises nearly midway between the ENE. and N.E. by N., and sets nearly midway between the ENE. and N.E. by N., and sets about 2° N. of W. by N.; and not he last day, he rises 2° N. of E. by N., and sets about 2° N. of W. by N.

He souths on the 1st day, at 6m. 0s.; on the 15tb, at 0m. 11s.; and on the last day, at 5s. after noon (common clock time), at an altitude of 56\frac{1}{3}°, on the 1st; of 52\frac{1}{3}° ou the 15th; and of 47° on the last day.

He is eclipsed on the 28th, but it is invisible in Eng'and.

The Moon rises between 7b. A.M. and noon from the 1st to the 5th; between noon and midnight from the 6th to the 27nd; and between midnight and 8h. A.M. from the 24th to the 31st. She sets between 8h. P.M. and midnight from the 1st to the 9th; between midnight and noon from the 9th to the 20th; and between noon and 8h. P.M. from the 21st to the euch.

to the 9th; between midnight and moon from the 9th to the 20th; and between noon and 8h. p.m. from the 21st to the end.

She is in the constellation of Leo on the 1st and 2nd; in Virgo on the 3rd, 4th, and 5th; Libra on the 6th and 7th; in Ophiuchus on the 8th, 9th, and 10th; near Sagittarius on the 11th and 12th; in Capricornns on the 13th; Aquarins on the 14th and 15th; in Pisces and Cetus alternately from the 16th and 20th; in Taurus from the 21st to the 23rd; in Gemini on the 24th and 25th; Cancer on the 26th; Leo on the 27th, 28th, and 29th; and in Virgo on the 30th and 31st On the 3rd she is on the Equator; on the 11th at her lowest point, being 20° high when she souths; is on the Equator again on the 17th; attains her greatest altitude on the 24th, being 56° high when she souths; and on the 30th, at midnight, she is a third time on the Equator.

She is full on the 14th, and new on the 28th; an Eclipse of the Sun takes place at the latter time, but it is invisible in this country.

She is near Mars on the 1st; Mercury on the 15th; Saturn on the 17th; Uranus on the 19th; Jupiter on the 26th; Mercury on the 28th; Venus on the 29th; and Mars on the 30th.

Orants on the 19th; Jupice on the 20th; sacrony on the 22th; and Mars on the 30th.

On the 22nd she occults Aldebaran and several stars—see the 3rd of the following diagrams, which shows the parts of the Moon at which these several stars will disappear and reappear; the former occurring at the bright limb, and the latter at the dark limb of the Moon, as seen in an inverting telescope:—

PATHS OF VENUS AND MARS IN AUGUST, 1848.



		20	,	10.						
				D.	н.	M.		D.	H.	M.
Gamma Tauri pear at the pla	will disar ce marke	o-}1	at	21	11	27г.м.	and re-appear at the place marked	}2 at 22	0	18A.M.
Theta 1 Tauri	**	3	at	22	3	18A.M.	37	7 at 22		26A.M.
Theta 2 Tauri	"					23A.M.				20а.м.
A. S. C. 516	"					24A.M.	"			35A.M.
Aldebaran	**	9	at	22	7	30A.M.	,,	10 at 22	20	30A.M.

MERCURY is in the constellation of Gemini from the 1st to the 5th; in Cancer,

Learth of Number of

MERCHY IS in the consentation of cemini from the first other Sit, in Cancer, on the 6th; and in Leo after the 6th.

He rises at 3b. 12m., on the 1st; at 3h. 0m. on the 10th; at 3h. 11m. on the 15th; and at 4b. 15m. on the 25th, and fill this time he is visible in the mornings, before the Sun rises; on the 1st, 10th, 15th, and 25th, he rises th. 14m., 1h. 39m., 1h. 36m., and 0h. 48m., respectively, before Sunrise. The point of the horizon where he rises, is E.N.E. throughout the month. He is moving eastward among the stars. He is at his greatest elongation W. on the 8th. During the

mornings of the 15th and 16th he is very near Jupiter, and they may be readily seen before Sunrise. On the 26th and 27th, he is very near Regulus. (See the first of the following engravings, showing his path and that of Jupiter this month; by reference to the first of the following engravings, it will be seen that, on the 18th, the Planet Venus occupied the same relative position, with respect to the stars, as this Planet does on the 26th and 27th days.)

VENUS will be in the constellation of Cancer till the 3rd; and in Leo from the 3rd till the end of the month.

ard till the end of the month.

She is an evening star during the month, and sets at 8h. 0m. on the 1st; at 7h. 42m. on the 15th; and at 7h. 16m. r.m. on the last day, nearly midway between the W. and the W. by N. points of the horizon. She souths on the 1st day, at 0h. 18m. r.m.; on the 1st day, at 1, at 3 m. r.m.; on the 1st hat 9h. 3 m. r.m.; and on the last day, at 0h. 43m. p.m., at the altitude of 57° on the 1st; decreasing to 44° on the last day. She is near the Moon on the 29th. Mars and Venus are near together towards the end of the month, the latter being the more westerly of the two Plauets. The paths of these Planets during the month are shown in the preceding drawing; that of Venus it will be seen is towards Regulus at the beginning of the month, till the 13th, on which day they are separated by a space less than one degree, and after this day the Planet, in her orbit, moves from Regulus, and towards Mars.

PATHS OF MERCURY AND JUFITER IN AUGUST, 1848



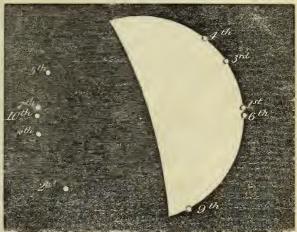
Scale, 15 degrees to one lock

Mans will be in the constellation Leo till the 27th; and in that of Virgo from

the 28th to the 31st.

He is an evening star: he is near the Moon on the 1st and 30th, and he is near Venus towards the end of the month. (See the opposite Engraving.)

OCCULTATION OF STARS ON THE 22ND OF AUGUST, 1848



OCCULTATIONS OF STARS BY THE MOON.

of nth	Deogta of	hours and	Time of		10	501.	I CAL D DA	LLDDLLL	٠.		0000	DX#1101	15 01 211	- DI 11	III MOO	
Days c	number of hours he-	minutes the	Daybreak, or beginning of Twilight	Time of Twiling Ending	ht					Nan	nes of the S	tars, iusu	Times aod re	of disappe appearance Star.	earance of the or	t the dark bright limb of he Moon.
1 6 11 16 21 26 31	H M 15 19 15 4 14 47 14 30 14 12 13 54 13 35	H. M. 1 13 1 28 1 45 2 2 2 20 2 38 2 57	H. M. 1 29 1 49 2 7 2 23 2 38 2 52 3 3	10 2 10 9 4 9 2 9 1	20 2	re not visit	the S	un.		Thet	ma Tauri a 1 Tauri a 2 Tauri	Ę	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	H M. 11 27 P. M 0 18 A. M 3 18 A. M 4 26 A. M 3 23 A. M 4 20 A. M	i. i. i.	Bright Dark Bright Dark Bright Dark
TIME	OF CHAN	ICES OF T	THE MOON,	the	M H. H	CURY		IT ASCE	NSIONS		CLINATI	ONS OF		ANETS.	UR.	ANUS.
And who	en she ls at	her greatest distance (Per	distance (Aporigee), from the	s of	Right Ascensio	Declina-	Right Ascension	Declina-	Right Ascension	Declina-	Right Ascension	Declioa-	Bight Ascension	Declina- tion South.	Right Ascensio	Declina tioo North.
FULL LAST		14 21 28 6 1	2H. 57M. A.M. 8 16 P.M. 4 8 P.M. 7 1 P.M. 0 P.M. 6 A.M.	6 11 16 21	7h. 36r 7 48 8 10 8 42 9 20 9 59	18° 28′ 19 21 19 37 18 53 17 3 14 12	8h. 59m 9 24 9 48 10 12 10 36 10 59	16 40 14 44 12 39	10h. 26m 10 38 10 49 11 1 11 13 11 25	10° 58′ 9 46 8 33 7 19 6 3 4 46	8h. 24m 8 29 8 33 8 38 8 42 8 46	19° 48′ 19 32 19 17 19 1 18 45 18 29	23h. 44m 23 44 23 43 23 42 23 40 23 39	4° 12′ 4 18 4 25 4 33 4 41 4 50	1h. 23d 1 23 1 23 1 23 1 23 1 23 1 22	8° 6′ 8 5 8 41 8 2 8 0 7 583

JUPITER'S SATELLITES.

COUNTRY SCENES. = AUGUST.



Thou shalt hear
Distant harvest carols clear,
Rustlo of the reaped corn;
Sweet birds antheming the morn;
Accoust ripe down-pattering,
While the Autumn breezes sing.

While the Antum The dark green fleaves that garlanded the rosy Summer, now, hegin to show npon their edges the waning yellow of Antumn; and on the skirts of the forest we can trace those rich hues which are too crimson to live long; that rise like the flushed roses on the consumptive check of the lovely maiden, looking too beautiful ever to be allied to death. In the oak, the elm, the chestnut, and the fir, we see the gloomy green, the burnished bronze, the fading yellow, and the dull red, lighted up between with masses of foliage that glitter like gold, all mingled and blended together so richly and harmoniously, that, in the distance, we cannot tell where the dusky green begins, nor the rounded yellow fades away; for leaves of all hues are now fast falling; the most beautiful to form a couch for Summer to lie down and die upon, while others remain behind until they are withered and shrunken by the cold and hollow winds of Autumn, then fall and hury her after she is dead. But there is yet work to be done in the fields; the great harvest has to be reaped and garnered; and now the sun-tanned sickle-bearers sally forth into the fields to cut down the golden grain which the Summer sun has ripened.

Pleasant is it to climb the verdant slope of some gentle hill that goes down with an easy descent into the valley, as if it had paused on its way to make a smooth slope here; and, lower down, to leave a little upland, as if it had there rested awhile, before it threw out the broad valley at its feet, leaving steps by which the wanderer might climb in after years, and view by degrees the heauty of the workmanship of those invisible hands. Delightful is it to ascend these table-lands; one after the other, to pause upon each easily-gained height, to raise ourselves just above the first corn-field, where the busy reapers are already at work, their rural and picturesque costumes forming a beautiful contrast to the yellow-waving and wide spread field—to watch them half huried a moment amid the drooping ears, then to see figure after figure slowly arise, and the ripe corn tied with twisted bands into rounded sheaves, until, at last, the heavy shocks are gathered, and, shove, the stubbly and furrowed lands heave up at equal distances little stacks of eary corn, which, with their ten thousand of plumy heads, are still looking cheerfully up towards heaven; then to climb the next range, which commands a view, wide out across the valley, and to see

patches of green and yellow in alternate contrast, dotted with gleaners and reapers—men, women, and children—sprinkled over the landscape, where horses are moving, and waggons laden with corn, grind down the ridgy glebe, as they rock like ships upon a sea, over the uneven furrows, and, like them, seem to roll along without a sound; for neither the creaking of wheels, nor the tramping of boofs, is heard from the green slope which we have ascended. Nearer at hand, yet still far out below our feet, we behold the thatched grange, peeping from its little nest of trees, and can see the long or rounded stacks slowly rising higher, as the waggons come full and glide away empty; for there are human figures busy upon the corn-ricks; and the end of the hough, which, but a few minutes before, seemed resting upon the sky, is shut out by the piled sheaves which rise up so slowly and silently, that we can just perceive them grow, by keeping the eye riveted upon the increasing pile.

Higher we climb to the topmost ridge, where the eye ranges over the whole outstretched scene, to where afar off the distant hills melt dimly into the sky; and the soft outline is lost in the silvery mist of the clouds. A spire and village, a lonely grange, that seems to have wandered away by itself into the fields, are all mspped out beneath our feet; and the long hedgerows that bound the green pastures seem but higher masses of taller grass, with here and there a bush arising above them, for so are the trees dwarfed by the vast distance from which we gaze; and where between the corn-fields the aame dark boundaries run, they look like little banks of green rising in Spring along a yellow fallow, a sunlighted land, upon which no green thing hath as yet sprung up; amid which little cottages occasionally arise, whose sloping roofs seem almost to touch the vendureless ground, so deeply are they buried in that ocean of golden corn; and sometimes the head of a human figure peeps up, then is lost again, as if something dark was washed slowly along, above and we are glad to scramhle up a bank, or shelter in a gateway that leads to some field, to let it pass; or we meet it at the turning of a village, see the reflection of the sheaves cast for a few moments upon the cool bright pond; it then passes on by the low grey churchyard wall, where death is ever slowly gathering in his harvest;—round the two yew-trees which stand like gloomy sentinels at the gate, under the tall coffin-looking elms that shut out the turning of the road, and then is lost to the sight.

gate, under the tall coffin-looking elms that shut out the turning of the road, and then is lost to the sight.

Now the broad fern arrests the eye with its russet-coloured leaves; and in shady places we find rich groups of fungi and agarics, stained with the deepest orange, rich crimson, gold of the clearest hue, spotted and sprinkled and starred with silver, and clothed in gaudier colours than the richest flower that ever opened its fragrant petals to the sunshine. Others again lie like huge snow-balls among the grass, as if some tiny urchin had rolled them there on the previous winter, and the giant bulk, which far outgrew his strength, had not yet melted

among the grass, as if some tiny urchin had rolled them there on the previous winter, and the giant bulk, which far outgrew his strength, had not yet melted away.

The autumn-crocus, which our auceators set so much store by, as it supplied them with the seffron they used in dyeing, is now in bloom; and, in moist shady places, tho wild mint may be found, with its round and lilac-coloured flowers, which fill the seffron they used in dyeing, is now in bloom; and, in moist shady places, tho wild mint may be found, with its round and lilac-coloured flowers, which fill the seffron they used in the hum of hundreds of congregated bees. The lavender, also, puts forth its twilight hlossoms, looking, when in flower, like a vast moorland covered with heather, over which the last sin-ray is fading before the night drops down; for so does the sombre purple bleed with the pinky hues, that throw a shifting and uncertain light over a lavender-field in fall bloom. By the dry banks where the little green grasshoper still chithers, the hlue and graceful harebell now blows; its delicate and azure cups trembling at every dallying breeze that breathes, as if they were ever afraid of being torn away from the fragile stem. On the way-sides, we meet with the large ox-eyed daisy, that grows side by side with the gandy poppy, and where, saving the wild tansy, no other green or flowery thing shoots up amid the arid and broken ground. Wherever we look, we see the tall, golden rod, baring its yellow flowers to the sunshine; and, below, the heautiful eye-bright, nestling like an insect among the grass, its white wings interlaced with streaks of green and gold. In the corn-fields we find the rich red-coloured pheasant's eye, which our great-grandmothers called rose-a-ruhy, and cousidered one of the most beautiful of Sunmer's last flowers. By the sides of streams we find the arrow head, gazing tranquily at its own shadow in the water, as if, like Narcissins of old, it was never weary of looking upon its three-leaved white pearled flower, with i

beautiful, as the humming-bird is amongst the feathered tribes.

Swallows, at the close of this month, begin to assemble by the sides of rivers, and prepare for their departure. There is a noise from morning until night amongst the willows. They are ever wheeling to and fro in search of food, then returning to the same spot, when the evening shadows begin to darken, to roost. They seem as if loth to go, yet are afraid to remain. There is an evident uneasiness amongst them, like tenants who have received notice to quit, and can no longer look upon the houses in which they have passed ao many happy hours as their own. The sweet rivers and green meadows of Old England have still a charm for them, aud fain would they, were it not for our hleak Winters, remain with us all the year. So have we interpreted their twitterings, as we have watched them for hours in our younger days, while idling happily along the hanks—now throwing in the line where we saw the fish playing—then stooping down to gather some beautiful autumn flower; or listening to the sounds which were

ever falling upon the ear, while we exclaimed-

How swert those rural sounds float by the hill. The grasshopper's shrill chirp rings o'er the ground, The tingling sheep-hells are but seldom still, The clapping gate closes with bollow bound; There's much circle in the church clock's measured sound.

"It is now," says the "Mirror of the Months," that debateable ground of the year which is situated upon the confines of Summer and Autumn; it is dressed in half the flowers of the one, and half the fruits of the other; it has a sky and temperature all its own, which vie in beauty with those of the Spring. May itself can offer nothing so sweet to the senses, ao enchanting to the imagination, and so soothing to the heart, as that genial influence which arises from the sights, the sounds, ing to the heart, as that genial influence which arises from the sights, the sounds, and the associations connected with an August evening in the country, when the occupations and pleasures of the day are done. There is no delight equal to that felt by a true lover of Nature, when he looks forth upon her open face silently, at a season like the present, and drinks in that still beauty which seems to emanate from everything he sees, till his whole senses are steeped in a swect forgetfulness. The whole face of Nature since last month has undergone an obvious change. Everything is still green: but it is not the fresh and tender green of Spring, nor the full and satisfying, though somewhat dull green of Summer; but many greeus that blend all those belonging to the above-named seasons."

There is a peculiar beauty about the fields at the close of August, where the hay has been cleared off early, and the second crops of grass have sprung up. They look like a rich green velvet earpet, for there are now but few flowers to break up the sweep of the smooth emerald surface. On the trees, too, we behold a new crop of leaves, as tender and delicate in hue as those which first burst from the buds and trembled in the mild breezes of May. It seems as if the foliage of Summer and Spring were blended together, for the buds wear the same pale April green. At a first glance, the young leaves do not strike the eye: you imagine

Summer and Spring were blended together, for the buds wear the same pale April green. At a first glance, the young leaves do not strike the eye: you imagine that the sunshine falls brighter upon these patches of foliage, until you see that is impossible for the Sun-rays to light up the branches in such a direction: and it is then that you discover this new bursting of tender leaves—that you have found out "a new delight."

Nothing can aveced the beaute of the strength of th

out "a new delight."

Nothing can exceed the beauty of the sky at this season of the year. The dcep blue of boasted Italy cannot surpass the azure vault in which the silver clouds now seem to lie and dream, while the sunsets of Autumn are magnificent. And as we gaze we call up those visionary palaces which rise up in the pages of the Arabian Nights, and almost fancy that we see thrown open, the great rnby-pillared and golden gates of heaven. And the moonlight, though no longer cheered hy the dulect harmony of the nightingale, has a peculiar charm at this scason; nor is there a grander object than the hroad round harvest moon, heaving up bright and full above high green-shouldered hills, while

All heaven and earth are still, though not in sleep, But breathless, as we grow when feeling most.

The ladybirds are now seen in hundreds; and this last summer, clouds of them came over from the coast of France, and were swept from off our piers into the sea. There is also a beautiful little blue butterfly now abroad, that goes flitting like a pea-blossom from flower to flower, and sometimes seems to mount the harebell as if only to rock itself for a few moments, and then again depart to alight upon the distant heather. Sometimes the woodlark rives in this "scason of mist and mellow fruitfniness," singing like the lark in Spring, as it soars. Nor is the rich-toned blackbird, nor the speckled thrush, as yet silent; while the linnets and whinchats keep up their merry song, as if Summer, instead of departing, was only just making her appearance. But this chorus only breaks out when the weather is unusually fine, and the month of Angust in its infancy. Amongst moths, the spotted wood-leopard may now be seen; and the gout-moth, where larva plerces the knotted ball of the giant oak, is now abroad: while the splendid tiger-moth expands its gorgeous wings; but these are only to be found in spots where

the birch Displays its glossy stem amidst the gloom Of alders and jagged fern, and evermore Waves her light pensile foliage, as she we The passing gale to whisper flatteries.





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M W	ANNIVERSARIES, OCCUR-		SUN.		1	MOON.			OF A	MOONLIGHT.	HIGH WATER	EQUA-	of ear.
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ן ט ט	REACES, FESTIVALS, &c.	1		Norte.	Morning.	Afternoon	Afternoon	O'Clock. 2h 4h, 5h.	Moon'	O'Clock. 7h. 8h. 10h	Morning. Afternoon	Subtreet	Tặ.
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2 S	Lond. burnt 1666,	5 16	$6 \ 42$	7 47	10 8	3 29	8 42		-5		4 35 4 55		246
3 5	11TH S. AFT. TRIN	5 17	6 40	7 25	11 10	4 13	9 10		6		5 10 5 25	0 52 2	247
4 M	Alpha Lyræ souths at 7h 36m	5 18	6 38	7 3	Afternoon	4 58	9 41				5 45 6 0	1 12 2	248
5 Tu	Old St. Barthol	5 20	6 36	6 41	1 8	5 45	10 19		5	1///	6 20 6 40	1 31 2	249
6 W	Gamma Aquilæ souths 8b 33m	5 22	6 34	6 19	2 3	6 33	11 .2		9		7 0 7 30	1 51 2	250
7 Tu	Eunurehus		6 32	5 56	$\frac{2}{2}$ 54	7 22	11 51		To		8 0 8 40		251
8 F	Nat. of B.V. Mary		6 30	5 34	$\frac{2}{3}$ $\frac{34}{40}$		Morning.				9 15 10 0	. 10-	252
9 8	Alpha Aquilæ souths 8h. 26m	5 27	6 28	5 11		$\begin{array}{cccc} 0 & 10 \\ 9 & 4 \end{array}$	0 49		12		10 35 11 15		253
-	12TH S. AFT. TRIN		6 25	4 48	4 22	$9 \ 56$			15		11 50 No Tide.	الأراد المتحدد	254
1 1 100	Length of Day, 12h. 53m.	1	6 23		4 58				1		0 15 0 40		255
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13 W	Total Ecl. of Moon		6 19	3 39	6 32	Morning.	5 32				1 50 2 10		257
14 Тн	Holy Cross	0 0 -	6 17	3 16	7 1	0 35	6 51		17.	7///	2 30 2 50		258
15 F	Beta Aquilæ souths 8h. 9m.	5 30		2 53	7 32	1 29	8 8		± 3		3 10 3 30	. / .	259
16 S	[Lambert	5 38	6 12	2 30	8 5	2 24	9 29		1.3		3 50 4 10		6.
17 5	13TH S. AFT. TRIN	5 39	6 9	2 7	8 44	3 20	10 46		<u>''</u> !!		4 30 4 50		61
18 M	Geo. I. & II. landed	5 40	6 7	1 43	9 28	4 17	11 58		21.		5 15 5 40	6 2 2	262
19 Tu	Fomalhaut souths 9h. 53m.	5 42	6 5	1 20	10 19	5 14	Afternoon		(6 0 6 25	6 23 2	63
20 W	Ember Wcek	5 44	6 2	0 57	11 15	6 11	2 3		22		6 55 7 25	6 44 2	64
21 TH	St. Matthew	5 46	6 0	0 33	Morning.	7 6	2 53		21		8 0 8 40	7 5 2	65
22 F	Aut. Quart. begins	5 48	5 58	0 10	0 17	8 0	3 35		25.		9 25 10 10	7 26 2	66
23.S	Autumnal Equanox.		5 56	South.	1 22	8 51	4 9		26		10 50 11 30	7 47 2	67
24 5	14TH S. AFT. TRIN		5 54	0 37	2 29	9 40	4 39		27		No Tide 0 5	8 7 2	68
25 M	Holyrood	11	5 52	1 0	3 37	10 27	5 6		$\overline{28}$		0 30 0 55		69
26 Tu	St. Cyprian. Old		5 49	1 24	4 43	11 13	5 31		$\overline{29}$		1 15 1 40		70
27 W	Length of Day, 1th. 50m.		5 47	1 47	5 49	11 57	5 55		Ö.		1 55 2 15		71
28 TH	Length of Night, 12h. 14m:	5 59	$\begin{bmatrix} 5 & 47 \\ 5 & 45 \end{bmatrix}$	2 10	6 53		2 00	110 110 110 4	\mathcal{L}		2 30 2 50		72
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SEPTEMBER.

THE SUN is in the sign Virgo till the 22nd; on which day, at 10h. 18m. P.M., he

THE SUN is in the sign Virgo till the 22nd; on which day, at 10h, 18m, P.M., he enters the sign Libra (the Balance) and Autumn commences.

On the 1st he is 95,810,000 miles from the Earth. On the 1st he rises near E. hy N., and sets near W. hy N. On the 23rd he rises in the E., and sets W., and after this time he rises and sets south of these points.

He souths on the first, 14 seconds hefore noon. On the 15th, 4m. 58s.; and on the last day, 10m. 6s. hefore noon (common clock time), at an altitude of 463°, on the 1st; of 383°, on the 22nd; and 353°, on the last day. On the 22nd, at 10h. P.M., he is on the Equator.

He is eclipsed on the 26th, but it is not visible in England. in England.

The Moon rises before midnight from the 1st to the 3rd; hetween midnight and noon from the 5th to the 20th; and between noon and 9h. P.M., after the 22nd. She sets hetween 8h. P.M. and midnight from the 1st to the 7th; hetween midnight and noon from the 8th to the 19th; and hetween noon and 7h. P.M. from the 19th to the 30th.

from the 19th to the 30th.

She is in the constellation of Virgo on the 1st; in Libra, on the 2nd, 3rd, and 4th; in Opbiuchus, on the 5th and 6th; near Sagittarius and Aquila, on the 7th and 8th; in Capricornus, on the 9th; in Aquarius, ou the 10th, 11th, and 12th; in Pisces and Cetus, alternately, from the 13th to the 16th; in Taurus, on the 17th, 18th, and 19th; in Gemini, on the 20th, and part of the 21st, on which day she passes into Cancer; she is in Leo on the 23rd, 24th, and 25th; in Virgo, from the 26th to the 29th; and in Libra, on the 30th. On the 1st she is situated 6°S. of the Equator; on the 7th, she is at her lowest point, and is 19 deg. above the horizon, on southing; is on the Equator on the 14th; at her greatest altitude on the 20th, being 56 deg. above the horizon when she souths; is on the Equator on the 26th; and on the 30th, is situated 14°S. of the Equator.

APPEARANCE OF THE MOON DURING THE TOTAL ECLIPSE, SEPTEMBER 13, 1848, PRECEDING TOTALITY.



At 4h 45m. A.M.

At 5h. 0m. A.M.



Fig. 2 .- At 5h, 15m, A.M.

Length of Number of Day, or hours and

She is full on the 13th, at which time a total eclipse of the Moon takes place, a part of which is visible in England. (See helow.) She is new on the 27th, and an Eclipse of the Sun takes place, but it is invisible at this part of the earth. She is near Saturn on the 13th; Jupiter. on the 23rd; Mars, on the 27th; and Mercury and Venns, on the 28th. The Eclipse of the Moon on the 13th day, hegins at 4h. 31m, A.M., and the successive appearances of the Moon are exhibited in the annexed drawings.

At 5h. 30m. A.M., the Moon will be totally Eclipsed, and at 5h. 32m. A.M., she, sets, so that no more of this Eclipse will be seen here. She is full on the 13th, at which time

MERCURY is in the constellation of Leo till the 7th; and in that of Virgo, after the 7th.

He sets on the 1st, at 6h. 55m.; on the 15th, at 6h. 36m.; and on the 30th, at 6h. 6m.; and these times are 11m., 22m., and 27m.; respectively, after sunset; he is, therefore, not favourably situated for observation throughout this month.

He is moving eastward among the stars. He is in superior conjunction with the

Sun on the 2nd. On the 26th, he is very near Spica Virginis.

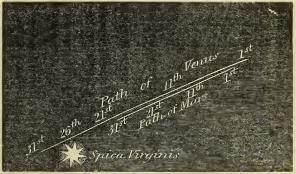
VENUS will he in the constellation of Leo, on the 1st; and in that of Virgo

after that time.

after that time.

She is an evening star, and sets at 7h. 13m., on the 1st; at 6h. 45m., on the 15th; and at 6h. 16m. P.M., on the last day, near the west point of the horizon. She souths on the 1st, at 0h. 43m. P.M.; on the 15th, at 0h. 51m. P.M.; and at 1h. 1m. P.M., on the last day, at the altitude of 44° on the 1st, decreasing to 29° on the last day. She is near Mercury and the Moon on the 28th. On the 7th, she is very near Mars; the two Planets continue near to each other during the first 20 days of this month. Their paths are shown in the annexed diagram, and it will be seen that Venus is very near Snice Virginis on the 26th. and it will be seen that Venus is very near Spica Virginis on the 26th.

PATHS OF VENUS AND MARS IN SEPTEMBER, 1848.



Scale, 15 degrees to one inch

Scale, 15 degrees to one inch.

MARS will be in the constellation of Virgo throughout the month.

He is an evening star, and sets near the W. hy N. at the heginning; near the W. at the middle; and near the W. hy S. at the end of the month; at 7h. 16m. F.M., on the 1st; at 6h. 35m. P.M., on the 1sth; and at 5h. 50m. P.M., on the 30th; these times follow those of the San setting on the same days by 32, 21, and 11 minutes, respectively. He souths at 0h. 56m. P.M., on the 1st; and at 0h. 10m., P.M., on the 30th. He is near the Moon on the 27th. He is near Venus all the month, particularly so on the 7th.

JUPITER will he in the constellation Cancer, till the 24th, and in that of Leo, from the 25th to the end of the month.

He is a morning star, and rises near the E.N.E., on the 1st, at 2h. 19m. A.M; on the 15th, at 1h. 49m. A.M; and on the 30th, at 1h. 5m. A.M. He souths on the 15th, at 9h. 25m. A.M., and sets ahout 2h. P.M. His motion among the stars is eastward. He is near the Moon on the 23rd. He has now moved considerably to the left of Castor and Pollux.

the left of Castor and Pollux.

eastward. He is near the Moon on the 23rd. He has now moved considerably to the left of Castor and Pollux.

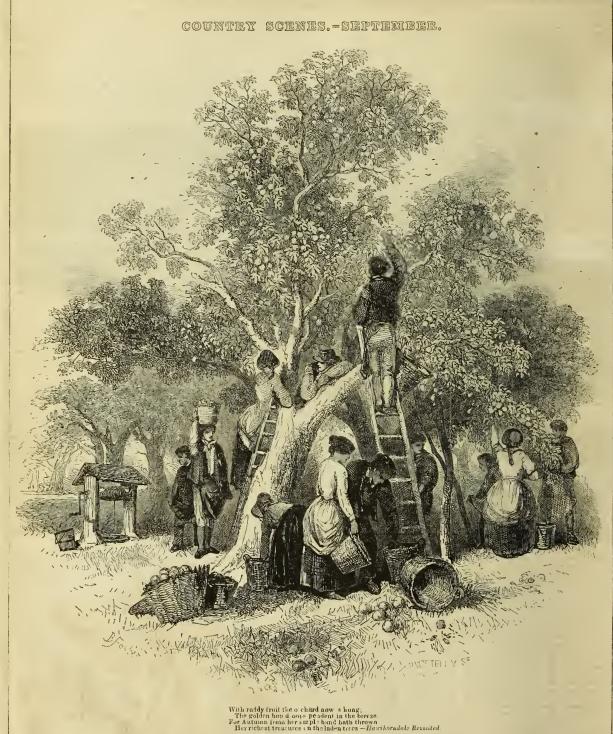
SATURN will be in the constellation Pisces. He is an evening star, and rises on the 1st, at 7h 15m. P.M.; on the 14th, at 6h. 15m. P.M.; exactly at the same time as the Sun sets; and on the last day he rises 22 minutes hefore the Sun sets. He souths at an altitude of 33° nearly on every day, and sets at the time of Sunrise. His motion among the stars is slowly westward. He is near the Moon on the 13th. On the 3rd the plane of the ring passes through the centre of the Sun, or in other words its thin edge is opposite to the Sun, and after this time the Sun and Earth are on the same side of the ring, and with powerful telescopes it may he seen; it continues so till the 12th, when the edge of the ring is again directed to the Earth, and we look at its thin edge only, and consequently it is again invisible. After this time to the end of the year, the Sun and Earth are ou different sides of the ring, and in looking at Saturn we look at its dark side. The ring will he invisible from this time to the e.d of the year.

URANGY rises near E. hy N., at 7h. 56m., P.M., on the 1st; and at 6h, 0m. P.M. on the 1st day. He souths at 1h. 43m. P.M. on the 1st, and at 6h, 0m. P.M. on the last day. He souths at 1h. 43m. P.M. on the 1st in the Sun, hut these times of appearance are so uncertain that there is no certainty in ohtaining a view of them. They first make their appearance on the eastern limh, and remain visible for several days. These apots have a hlack centre of several thou sand miles in diameter, whilst the extent of the whole spot, including the surrounding penumhra, is such that its diameter is frequently from 30,000 to 50,000 miles.

OCCULTATIONS OF STARS BY THE MOON.

Days the Mo	hours be- tween Sun- tet and Sunrise.	dsy has de- creasedaince the Lougest Day.	or beginning	Time of Twilight ending.	lst Sat			d Sat. nersion.	Na	mes of the	Stars.	Times and re	of dissppearance Stars.	earance	t the dark bright limb of the Moon.
1 6 11 16	н м. 13 29 13 12 12 53 12 34	н. м. 3 3 3 20 3 29 3 58	H. M. 3 6 3 17 3 29 3 39	н. н. 8 52 8 38 8 22 8 9	7 3 56 23 2 12 The Planet i	A.M. s near ?	n. H. 10 3	м, 34 а.м.	Tau.	1 Gemino	rum	6 10 At th emer have	es the Moo	e Star	Dark
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And w gee), o Earth i	ES OF CHAN then she is at rat her least of in each Lunation	her greatest listance (Peri	distance (Apo-	Jo sas R	MERCURY. Declination North. South.		T ASCEN NUS. Declina- tion No:th. South	Right Ascension		Right Ascension	Declina-	THE PL	NETS. PURN.		Declina-
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JUPITER'S SATELLITES.



AUTUMN, yet with her hand grasped in the feeble clasp of Summer, as if the latter was loth to depart, while there is still so much green hanging about the woods, and so much blue and sunshine about the sky and earth. But tho leaves are rustling in the forest paths, the harvest-fields are silent, and the heavy fruit that hows down the branches, proclaim that the labour of Summer is ended—that her yellow-robed sister has come to gather in and garner the rich treasunes she has lett behind. Beautiful are the old English orchards during this month, with their gnarled and twisted branches, and moss-covered stems, standing upon a thick carpet of grass, that looks green all the year long—a verdant sward, spread purposely for the fruit to fall upon, when they have drunk in their fill of mellowness, and dyed their cheeks with the rosy hues of the sunshine. Pleasant is it to look upon these fine old deformed trees, whose shoulders are round and backs are bent, through the heavy loads which they have borne year after year, and who still seem to glory in wheir hale and hearty old age, and to boast of the weighty hurrbens which have sunk their grey old heads, yet still left such sunny streaks bebind. What forgotten feasts have they snpplied! What old-fashioned,

heavy, oaken tables have they helped to furnish, sending forth, a century ago, high-piled dishes of rich, ruddy, and golden-rinded fruitto the happy guests, who now lie in the village churchyard, opposite the moss-covered orchard wall—yet so near, that Spring sometimes blows her blossoms upon their graves—perhaps on the narrow bed of the "grey forefather" who first planted that hoary stem. What sweet faces heve looked up from beneath those aged houghs! What morry voices have sounded within that ancient enclosure! The gladsome short of childhood—the silvery laugh of the modest maiden—the deep-chested chorus the bluff old farmer—all met to gather into the cry and wide store rooms, the weighty fruit that ever came of its own accord, and neither asked for man's attendance or lahour.

weighty fruit that ever came of its own accord, and hence a saked to make the dendance or lahour.

Now rustic groups may be seen wandering far away to the woods and sumy lanes, to gather blackberries and nuts; and these are amongst like pieasantest of all Autumn excursions. What wild places do we sometimes stumble upon during these ramhles! Some such we have now in our eyes, which we visited years ago, which we had to make our way to through narrow paths, hemmed in with

broad fern and prickly gorse bushes, many of which rose high as our heads—for they had never beeu cut down within the memory of man. And every now and then we come to the old hedgerows, covered with golden and silver-coloured moss, and dark through the clouds of sloes and bullaces that grew above, and the moss, and dark through the clouds of sloes and bullaces that grew above, and the huge carved-like ebony blackberries that hung below. There are few such hedges to be found now; for many and many a year had they grown on, and no one had heeded them. The bramble had spread out hefore, and the sloe bushes hehind; and the hawthorns and crab-trees had gone on deepening, Summer after Summer, until the hunter was compelled to draw his rein when he approached them; for they had at last formed such an impenetrable barrier, that neither

Dint of hoof, nor print of foot, Did mark that wild luxurious soil— No sign of travel or of toil.

What haunts were these for the Naturalist! Here he might rest concealed for hours, and watch the habits of beasts, birds, and insects—see them feed, build, and burrow—lead forth their young from spray to spray—and note a many things which are now slowly finding their way into hooks. Such spots called up the England of ancient days, when the skin-clad Briton, with his javelin in his hand, and his long hair blown hack, pursued the chase through the wooded wilderness; ages before the Roman gallies had ploughed up the sand on our storm-beaten shores. They filled the mind with poetic images, such as seldom float before the eye in walled cities—such as only rise up where Nature still reigns in all her primitive grandeur. I rambled through them, and dreamed of the old Antums which reigned over England a thousand years ago—pictured the forests which Harold marched through, when he met William of Normandy on the field of Hastings—and heard the tramp of the Saxons as they passed for the last time over those ancient fields. What haunts were these for the Naturalist! Here he might rest concealed for

'Twas a wild spot; for the reold legends say, In former days, a Druid's alter stood. And huge, grey stones are stretched out every way Among the moss-grown stems of that wild wood.

And huge, grey stones are stretched out every way Among the moss-grown stems of that wild wood.

This is the month that partridge-shooting commences; and many an eager sportsman now hurries off to the empty corn-fields, to waken those ecboes which, but a week or two ago, rang back the song of the reaper, with the roll of his murderous gun. Not, we trust, that all are tempted by the work of destruction alone; for we believe that numbers go with as keen an appetite for the beauties of nature as we ourselves possess. Yet there is something very spirit-stirring in this manly sport—in the attitude of the dog as he throws up his head, and makes a dead stop—in the pleasure with which he sets out to seek the hird after the shot is fired. After all, I prefer seeing the old birds at the head of their young ones, as they half fly and half run, about the close of Sommer, hiding themselves among the corn or long grass, until the intruder has passed. I never looked upon the beautiful plumage, so richly diversified with brown, black, and ash-colour, without regret, when I saw all these mingled hues dabbled with blood; to me it was ever "a sorry sight."

Hop-picking is about one of the last, and the most beautiful of rural employments. There is something so green and clean about a hop-plantation, and such a soothing aroma arises from the smell of the bine, that it seems like the last sweet smell that Summer has left behind. Nor can anything be more graceful than the drooping vioe-shaped leaves, and the golden cones, that have twined in all kinds of fantastic shapes around the tapering poles. What picturesque groups do we see at work! What a gipsy-like encampment has every little family formed While picking, washing, cooking, and nursing all go on together in harmony at the same time. And a pretty picture did we once see of an innocent child, asleep in its little crib—while ion its rounded face the shadows of the hop-leaves fickered and played in the trembling sunbeams—

and played in the trembling sunbeams-

Like the last smile of Autumn, Reaming above the yellow woods.

I have often fancied that a herd of deer never appear more beautiful than when seen, amid the changing foliage of Autumn, either standing or lying down. They harmonise with the brown russet hue of the feru, above which their lofty antlers and graceful necks arise with a forest-like msjesty—all in keeping with the rich and varied tints of the verdurous roof above their heads. How stately they seem to march between the broad avenues of trees; and how fine is the attitude when, with ontstretched neck, one pauses to reach the red cluster of hawthorn berries which just sweep helow the tips of his antlers. But, above all, how beautiful to see them crossing a sheet of water, that spreads out like a mirror in some ancient English park.

We now see riding leisurely upon the air the light and graceful downs of the dandelion and thistle, gliding noiselessly along, like transparent and winged insects, now alighting for a moment upon the leaves, then floating away high up in the clear air, until they become invisible to the eyc. Spanning from branch to branch, we see the light, siken network of the spider bending in the breeze, while the little mechanist sits safely in the centre of his own may structure, bis air, walls beaded with pastle for make seen the required down drops that glitter while the little mechanist sits safely in the centre of his own mazy structure, bis airy walls beaded with pearl—for such seem the rounded dew-drops that glitter on the star-like points of the closely intersected wheel on which he rests. We see the bee moving drowsily and listlessly along, like a weary traveller who almost despairs of reaching his next resting-place, so wide apart now lie the road-side flowers—those beautiful half-way houses which he met at every step, as he went singing merrily on his way through the land of Summer. Hope, who looked with a cheerful countenance upon the landscape of Spring, has departed; instead of watching each green and flowery object day by day as they hudded and blossomed, we now see only the traces of slow and sure decay, the green fading bit hy hit, until the leaves become like the skeleton wings of an insect, the wind hlowing through those places which were before marked with azure, and crimson, and gold. The Sun himself seems growing older; he rises later from his bed in the morning, and returns to rest earlier in the evening, and seems not to have that streugth which he possessed when he rose in the youtful vigour of Spring, and the bright and cheerful manhood of Summer; for his golden eyes seem clouded, and his breath thick and heavy, as he struggles through the surrounding fog. All these are marks of the seasons, telling us that the year is growing grey, and slowly tottering towards the darkness and gravellke silence of Winter.

But September brings with it one great rural holiday to those who keep

But September brings with it one great rural holiday to those who keep Nature's carnival, and enjoy the changes of the seasons. To us, who dwelt in the neighbourhood of old woods, our Nutting-day was an excursion often talked of for weeks before it arrived. It was the pleasantest of all our gipsy feasts, for it was held in the centre of a wild wood, in one of Nature's own summer-houses, in a bower, not by art,

But hy the trees' own inclination made.

A spot which, even to reach, we had to pass through one of Earth's Paradises; for never did more beautiful hills rise up above a pastoral country, than those we ascended on our way to the woods. No grim board ever disgraced those ancient oaks, warning the lover of nature not to trespass; for, excepting the underwood, and the wild fruits, there was nothing we could have carried off there,

for the bole of the smallest tree would have been a load for half a dozen borses. Game we meddled not with, and this the old Squire well knew; we trampled nothing down but the entangling thicket, bramble, and sloe, and hazel, and wild rose, which generally took toll of our drapery as we passed, giving a scratch for a pressure, and a rent fer a tug, which only increased our merriment the more. There was ever some lady's shawl to disentangle; some heavy and well-filled basket to extricate from the bushes; a long rent to pin up; a trailing brier to cut away, before we could pass further; a hrook to leap, and a circle to take, which sometimes only led to more impenetrable shades; a stray companion to hunt up, whose "whereabout" was only known from the direction in which the voice came, for these petty perils were the very charms of Nutting. What stooping, and creeping, and pulling, and dragging, was there, where nother gig nor chaise could move a foot, unless the wild underwood and weeds had been cleared. Then what a beautiful glade we at last came to; one which the foot of man had seldom passed; which the richest carpet that was ever spread out never exceeded in softness—the very turf was elastic; it had been formed by the fallen leaves of many centuries. And the oak that stood in the centre! You marvelled how a single stem could bear such majestic branches; for Architecture, with all the skill and means of art, could never invent a pillar to support such a projecting weight, as that which sprang from the bole of a single tree. At the foot of this venerable monarch of the forest we piled our baskets and bottles, doffed all superfluous drapery, then sallied into the thicket with our hooked sticks, to drag down the hazel boughs, and strip them of their brown shellers, which fiell from out the deep bordered cups, as the boughs were shaken. As we wish to make all true worshippers of Nature acquainted with Browne's "Britations Pastorals," we shall present them with another rural picture. The scene is "Nutting," and thi the close of the reign of Queen Elizabeth.

A wandering hoy sets out to gather nuits,
A hooked pole he from a hazel cuts;
Now throws it here, then there, to take some
hold,
But bootless and in vain; the rocky mold
Admits no cranny where his hazel hook
Might promise him a step; till, in a nook
Somewhat shove his reach, he hath espied
A little oak; and having often tried
To cannot brought with standing on his toe,
the rolls a stone towards the little tree,
Then, getting on it, fastens warily

His pole into a bough, and at his drawing, The early-rising crow with clamorous co

The 'early-rising crow with clamorous cawing,
Leaving the green bough, files ahout the rock,
Whilst twenty twenty couples to him flock.
And now within his reach the thin leaves
wave;
With one hand only then he holds his stave,
And with the other grasping, first the leaves,
A pretty hough he in his hand receives;
Then to his girdle making fast the hook,
His other hand another hough bath took;
His first a third, and that, another gives,
To bring him to the place.

We must not pass over the beauty of sea-side scenery at this season of the year, for we are children of the ocean; and, next to our matchless English landscapes, do we love the rocks that guard, and the waves that are ever washing around our lovely island. Pleasant is it now to stand npon some tall headland, and watch the ever-moving waves, as they roll through the shifting shadows of the clouds, purple, and green, and golden, onward and onward, until they are lost among the indistinct haziness of the distant sky. Then how solemnly falls upon the ear that never-ceasing mnrmur of the waves—that voice which for countless ages has never been silent, hut day and night, for evermore, beats time with its melancholy music upon the pebbly-beach. Or to walk under the tall white cliffs, which have stood for undated centuries, above! above! when that wide sea was mastless, and neither the shadow of man nor ship had ever been mirrored upon its waves; for even then they stood, as they do now, reflecting back the bright antumnal sunshine. Like things of life, the tiny fishing-boats mount above the waves, diminishing in the distance nutil they appear mere specks—until you can only just discern the spots of light which indicate the white sails, and you can almost fancy that they are "Birds of calm brooding on the charmed wave." What great golden pathways seem at times to stretch over the deep—reaching to the very verge of the sky—smooth to appearance, yet, when trodden, rough and perilous, as that which the pilgrim traverses on his way to the shrine of his saint—on his journey towards Heaven. Who can imagine those terrible convulsions which severed England from the opposite coart of France; that stormy hour, when the sea rushed in hetween—when the manmont and the mastadon stood moaning upon the severed cliffs; and no human cye beheld that mighty crash? must not pass over the beauty of sea-side scenery at this season of the mastadon stood moaning upon the severed cliffs; and no human eye beheld that mighty crash? Who that gazes upon the sea can for one moment doubt that such changes have taken place?





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M	w	ANNIVERSARIES, OCCUR-	1		SUN.	DECLI	F		1	ON.			DURATION Before Sprise		OONLIGHT. After Sunset.	HIGH AT LONDO	WATER N BRIDGE	EQUA.	of Year,
D	D	RENCES, FESTIVALS, &c.	Rr	SES.	SETS.	TION	v i	RISES.		тнз.	SET			Moon's Age.		-	Afternoon	OF TI	IE OM
"	1	RENCES, FESTIVALS, &c.				Sour	11	Morning.	Afte	rnoon	After	loon	O'Clock. 2h. 4h. 5h.	Mo	O'Clock, 7h, 8h. 10h.			Subt	Day the
		- × O M	н.		н. м.	Deg. M		H. N.	и.	M.	н.	M.	WHAT WATER	1000	10470100	н. м.	н. м.		
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3	Tu	Old St. Matthew	6	6	5 31	4	7	11 54	4	26	8	56		(5		5 10	5 25	11	3 277
4	W	Length of Day, 11h. 2im.	6	8	5 29	4 :	30	Afternoon	5	14	9	42	777 777 777			5 45	6 .5	11 2	1 278
5	Тн	Length of Night, 12h. 44m	6	10	5 26	4	53	1 33	6	3	10	35			1110	6 25	6 50	11 3	9 279
6		Faith	6	12	5 24	5	17	2 16	6	53	11	34		9	- ///	7 20	7 50	11 5	6 280
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16		Fomalhart souths 9h. 6m	6	-	$\frac{5}{5}$	9	3	8 12	1 -	4	1	52		19		4 10	4 35	14 2	
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18	$ \mathbf{W} $	St. Luke. This	6		4 58	9 4	16	10 10	5	I	Aftern			21		5 45	6 10	14 4	9 292
19	Тн	Evangelist was the author of the Gospel of St Luke	6	33	4 56	10	8	11 16	5	56		34				6 40	7 10	(15	0 293
20	F	and the Acts of the Apos- tles. He was a disciple	6	35	4 54	10	30	Morning	6	49		12		20		7 45	8 25	15 1	0 294
21	S	and follower of St. Paul.	6	37	452	10	51	0 23	7	38	2	43		24		9 5	9 50	15 2	0 295
22	S	18TH S. AFT. TRIN	6	38	4 50	11	12	1 30	8	26	3	111		25		10 30	11 5	15 2	9 296
23		Alpha Pegasi souths 8h. 48m.	6	40	4 48	11 3	34	2 35	9	11	3	36		26		11 40	No Tide.	15 3	7 297
24	Tu	Alpha Andromedæ souths 9h. 46m. p.m.	6	42	4 46	11 8	54	3 39	9	55	4	0		27		0 5	0 30	15 4	4 298
25	W	St. Crispin	6	43	4 44	12	15	4 43	10	38	4	23		28		0 55	1 15	15 5	1 299
26	TH	This day was formerly a grand festival with shoe-	6	45	4 42	12 3	36	5 49	11	22	4.	47		29		1 30	1 50	15 5	
27	F	makers, who claimed this saint as their patron.	6	47	4 40	12 5	56	6 49	After	noon	5	13		6		2 4	2 20	16	2 301
28	S	St. Sim. & St. Jude	6	49	4 38	13	16	7 51	0	50	5 .	42		1		2 35	2 55	16	6 302
29	1	19TH S. AFT. TRIN	6	51	4 37	13 3	36	8 51	1	35	6	15		2		3 10	3 25	16 1	0 303
30			6	53	4 35	13 8	56	9 48	2	22	6	53				3 40	3 55	16 1	3 304
		Allhallows Eve			1 34	14 1	5	10 41	3	9	7 :	37		4		4 15	4 25	16 1	5 305
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OCTOBER.

THE SUN is in the sign Lihra till the 23rd; on which day, at 6h. 34m. P.M., he

The Sun is in the sign Lihra till the 23rd; on which day, at 6h. 34m. P.M., he enters the sign Scorpio (the Scorpion)

On the 1st he is 95,190,000 miles from the earth. On the 1st he rises midway between the E. and E. by S., and sets midway between the W. and w. hy S.; on the 11th, he rises at the E. by S., and sets at the W. hy S.; and on the 14th, he rises at the E.S.E.; and sets at the W.S.W. points of the horizon. He souths on the 1st, at 10m. 25s.; on the 15th, at 14m. 13s.; and on the 31st, at 16m. 15s. hefore noon (common clock time), at an altitude of 35° on the first, and of 24° on the last day.

and of 24° on the last day.

The Moon rises hefore non till the 4th; between noon and midnight from the 5th to the 20th; and between midnight and 11h. a.m., after the 21st. She sets between 7h. p.m. and midnight till the 6th; between midnight and uoon from the 7th to the 17th; and between noon and 8h. p.m. after the 18th.

She is in the constellation of Lihra, on the 1st; in Ophinchus, on the 2nd and 3rd; she is moving on the houndaries of Sagittarius and Aquila, on the 4th, 5th, and 6th; in Capricornus, on the 7th; in Aquarius, on the 8th and 9th; in Pisces and Cetns, alternately, from the 10th to the 14th; in Taurns, on the 15th and 16th; in Gemini, on the 17th and 18th; in Cancer, on the 19th and 20th; in Leo, on the 21st, 22nd, and part of the 23rd; in Virgo, till the 26th; in Libra, on the 27th and 28th; and in Ophiuchus, on the 29th, 30th, and 31st. On the 4th, she is at her lowest point, heing 19 deg, high when she souths; is on the Equator, on the 11th; attains her greatest elevation on the 17th, and is 56 degrees high on this day, when she souths; is on the Equator again on the 24th, and on the last day is a second time at her extreme south position, being 20 deg. high when she souths. when she souths

She is full on the 12th, and new on the 27th, but without on eclipse at both

She is near Saturn, on the 10th; Uranus, on the 12th; Jupiter, on the 21st; Mars, on the 26th: Mercury, on the 28th; and Venus, on the 29th.

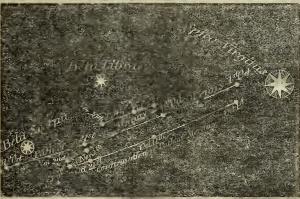
Mercury is in the constellation of Virgo till the 4th, on which day he passes

APOGEE

MERCURY is in the constellation of Virgo till the 4th, on which day he passes into Lhra.

He sets on the 1st, at 6h. 4m.; on the 15th, at 5h. 36m.; and on the last day, at 4h. 56m.; and these times are 28m., 32m, and 22m., after sunset. The Plauet is not favourably situated for observation during this month. He is moving eastward among the stars at the heginning, and he is stationary at the end of the month. He is at his greatest E. elongation on the 18th. At the heginning of the month, he is near Spica Virginis and Venus, and till the 21st these two Planets continue moving nearly parallel to each other. In the following engraving the path of Mercury is shown, during this and the following month. (See the above remarks, and fliose in November, for the direction of his motion among the stars in connection with the engraving.)

PATH OF MERCURY IN THE MONTH OF OCTOBER AND NOVEMBER, AND PATH OF VENUS IN OCTOBER, 1848.



Scale, 15 degrees to one inch.

VENDS will be in the constellation of Virgo till the 6th; in that of Libra, from the 7th to the 26th; and in that of Scorpio, from the 27th to the end of the month. She is an evening star, and sets at 6h. 14m., on the 1st; at 5h. 51m., on the

P. M.

15th; and at 5h. 35m. P.M., on the last day; near the W.S.W. at the heginning, and uear the S.W. by S. towards the end of the month.

On the last he souths, at 1h. 1m. P.M.; at 1h. 13m. P.M., on the 15th; and on the 31st, at 1h. 30m. P.M.; at the altitude of 28° on the 1st, decreasing to 17° on the last day. She is near the Moon on the 28th, and near Mercury from the beginning to the 21st. She is near Spica Virginis on the 1st, and near Beta Sc.rpi towards the end of the month. These different positions are shown in the preceding energying. preceding engraving.

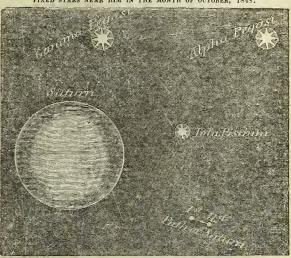
Mars will he in the constellation of Virgo throughout the month.

Mars Will be in the constellation of Virgo throughout the month.

He is a morning star, and rises midway between the E. and E. by S. at the hegimning; near the E. by S. at the middle, and near the E.S.E. at the end of the month; at 5h. 48m. A.M., on the 1st; at 5h. 9m. A.M., on the 15th; and at 4h. 26m. A.M., ou the 3lst. He souths at eight minutes after 12 (noon), on the 1st; and at 11h. 26m. A.M., on the 3lst. He is near the Moon on the 26th. Jupites will be in the constellation Leo throughout the month.

He is a morning star, and rises near the E.N.E., at 1h. 2m. A.M., on the 1st; at 0h. 20m. A.M., on the 15th; and at 11h. 24m. P.M., on the 3lst. He souths at 7h. A.M., and sets about noon near the middle of the month. His motion among the stars is eastward. He is near the Moon on the 21st.

APPEARANCE AND PATH OF SATURN, SHOWING HIS POSITION WITH RESPECT TO FIXED STARS NEAR HIM IN THE MONTH OF OCTOBER, 1848.



Scale 10 degrees to one inch; the planet is drawn on a scale of 40 seconds of arc to one inch

SATURN will he in the constellation Pisces. He is an evening star, and rises SATORN with the in the constenation recest. He is an evening stat, and rises before the Sun sets. He sets midway between the W. and W. by S., on the 1st, at 4h. 23m. A M; and on the 31st, at 2h. 16m. AM. He souths at an altitude of 32° on every day; on the 1st, at 10h. 46m. P.M.; and on the 31st, at 8h. 42m. P.M. He moves westward among the stars, but very slowly. He is near the Moon on the 10th. The ring is invisible.

ring is invisible.

He is the only large Planet now favourably situated for examination in the evenings; from the above times of his southing, it will be seen that he is most favourably situated from 9h. to 1th. p.m., he being at those times sufficiently above the impurities of the horizon to be examined.

This object is, heyond a doubt, the most wonderful of all the objects connected with the solar system; and it will be interesting to all persons possessed of telescopes, to examine the Planet this month, shorn as he appears to be of his ring, yet his moons, and changing belts, render it an object of exceeding interest at all times.

His path in the Heavens this month is shown in the annexed diagram; his change of position, however, during the month is so small, that, to the naked eye, he will seem to occupy the same position with respect to the fixed stars.

By reference to the above diagram, it will be seen that Saturn, Gamma Pegasi and Alpha Pegasi form a triangle, of which Saturn occupies the lower angle, and that he is very nearly equally distant from both these stars.

Days of the Month.	Length of Day, or number of hours hetween Sunriseand Sunset.		Time Day brook or begin	eak,	Time of Twilight ending.		JUPI'	Eclipses		Sat.	Nam	OCCUL	la			arance of the	
1 6 11 16 21 26 31	H. M. 11 34 11 12 10 53 10 34 10 15 9 57 9 39	H. M. 4 58 5 20 5 39 5 58 6 17 6 35 6 53	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	M. 8 17 26 35 42 49	H. M 7 30 7 18 7 7 6 56 6 46 6 36 6 26	16 23 30	H. M. 2 20 A. 4 14 A. 6 7 A. 20d. Sat. 3 9 A. 5 44 A.	M. M.	31 4 7 4th. 6 4 11 23 2 48	A. M. I. A. M. E. Sat. A. M. I. A. M. E.	85 Ce N Tau	ri eri		6 13 1 14 16 1 17 19 19	1. M. 1 17 P. 1 0 6 A. 1 1 47 P. 1 0 39 A. 1 5 50 A. 1 7 7 A. 1	i. i. i.	Bright Dark Bright Dark Bright Dark
TIM	ESTOF CHA	ANGES OF	THE M	IOON,	the	Ai L II (UKY.	RIGHT		SIONS A		LINATIO		HE PLA		URA	NUS.
gre),	when she is a or at her leas in each Lun	t distance (Pe			Mo	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion South.	Fight Ascension	Declina tion South.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North,
FOLI		12 19 27	2H. 1M 3 56 6 28 2 46 0 7	f. P.M P.M A.M A.M A.M.	6 11 16 21	13h, 44m 14 10 14 35 14 57 15 16 15 29	12° 11′ 15 7 17 40 19 46 21 17 22 1	13h. 43m 14 6 14 30 14 54 15 19 15 44	12 24	12h.50m 13 2 13 15 13 27 13 40 13 53	4° 44′ 6 3 7 21 8 38 9 54 11 9	9h. 15m 9 18 9 21 9 24 9 27 9 29	16° 36′ 16 21 16 8 15 55 15 43 15 31	23h. 29m 23 28 23 27 23 26 23 25 23 24	5° 56′ 6 4 6 11 6 18 6 24 6 29	1h.18m 1 17 1 16 1 16 1 15 1 14	7° 31′ 7° 26 7° 22 7° 18 7° 13 7° 8



Forest scenery never looks so beautiful as in Autumn; and at no period of this case of can it be seen to better advantage than between the shutting in of September and the opening of October. It is then that Nature seems to have exhausted Each lane and every alley green, season can it do seen to better advantage than between the shutting in of september and the opening of October. It is then that Nature seems to have exhausted lif the fautastic colours of her paletie, and to have scattered her richest red, brown, yellow, and purple, upon the foliage. Every gust of wind that now blows, brings down thousands of golden-coloured acorns, that come pattering like little (set among the fallen leaves, leaving empty their smooth, round, hollow cups, from which the old poets in their fables framed the drinking vessels of the fairies. We need not wander further than the New Forest to witness one of those scenes which Scott, in his "Ivanhoe," has steeped in the sunniest huces of poetry, and where we can see realised the vision of Gurth, the swineherd, tending his noisy and grunting charge, as they feed upon the fattening acorns. It is only and grunting charge, as they feed upon the fattening acorns. It is only and grunting charge, as they feed upon the fattening acorns. It is only and forest scenery that hogs have a poetical appearance; there is then a clear, silvery look about their bristly hides, which is beautifully brought out by the green of the underwood, and softened by the shadows of the overhanging branches. The picture is also more endeaved to us through its antiquity; for, excepting in the change of costume of the swineherd, we know that our old English forests presented just such another scone above a thousand years ago. We find it recorded in the earliest descriptions we possess of the manners and customs of our Suxon forefathers. In Doomsday Book it is frequently mentioned; and, smong the old Forest Laws, we find the seasons of mast, and pannage, and fence-month, regu

Each lane and every alley green, Dingle, or bushy dell of that wild wood, And every bosky hourn, from side to side, Their daily walks and ancient neighbourbood—

Their daily walks and ancient neighbourbood—

Who were ever wandering about with bolt and bow in hand, ready to shoot a shaft at either dog or man, if they were found trespassing upon the Royal chace. Those who live on the borders of the forest have the privilege of feeding their hogs upon accorns or beech-mast throughout the month of October, and they are still intrusted to the care of a swineherd as they were in the olden time. The modern Gurth, however, first sets out to reconnoitre the forest; and, having found a shady and favourable spot, where accrus or beech-mast are abundant, and water is near at hand, he next commences erecting a habitation for the reception of his raveuous herd. Having selected some huge, gigantic oak, he ecloses a large space around it with a wattled fence, makes a warm bed inside, of fern, weeds, and withered forest grass, then covers it over with brauches and entaugling underwood. After this is completed, he collects his berd amongst the neighbouring foresters, who generally pay a shilling a head for all they intrust to his care; and, driving them where there is a plentiful supply of food, he allows them to eat their fill, and after this urges them on to the clear water-course,

when, having drank, he forces them hack to the large sty he has erected, and leaves them, in all their swinish ease, to repose until the following morning. After a day or two they require hut little looking after; for, although they will wander away two or three miles into the depths of the forest, and he divided into numerous parties, yet each division of the herd has its leader, who is sure to return at nightfall, trudging hefore his followers, to the accustomed resting place, beneath the huge, hroad-branching oak. By the end of the month, the whole herd is in such excellent condition that but little food is required for fattening

them hefore they are slaughtered.

One of the most heautiful pictures in Bloomfield's "Farmer's Boy," is a description of swine coming to drink at the forest pool, and startling the wild duck from her lonely haunt, who, in her turu, alarms the whole herd by the noise she makes

with her wings, as she rises, when

With bristles raised, the sudden noise they hear, And ludicrously wild, and wing d with fear, The herd decamp with more than swinish speed, And snorting, dash through sedge, and rush, and reed. Through tangling thickets headlone on they go, Then stop, and listen for their fancied foe:

The hindingnest still the growing panic spreads—
Repeated fright the first alarm succeeds.

Now the villagers are husily employed n gathering the last clusters of the ripe elderherries, which, having picked, they either make into wine, or carry to the neighbouring market town, where they dispose of the fruit at eightpence nr tenpence per gallon. A few groups of men, women, and children, may yet be seen in the fields, blowing their fingers for very cold, during the first frosty mornings of

pence per gallon. A few groups of men, women, and children, may yet be seen in the fields, hlowing their fingers for very cold, during the first frosty mornings of October, while they gather the heavy potatoes, pile them in their haskets, and earry them off to the lumbering eart to he stored up against the coming Winter. The ploughman and the sower are now in the fields, making ready and casting in the seed, which shoots up so early in the following year, and is the first to give that green and velvet-like look to the opening landscape of Spring. As the flowers die away, the evergreens seem to come out with a Summer-like freshness; the holly and ivy have a greener and glossier look; the alder still retains its vernal hue, and the hedges are hung with the crimson hips of the wild rose, the dark red herries of the hawthorn, and the gushing scarlet and emerald hrancles of the nightshade; while helow, the arums have risen up, stiff and perpendicular, like stem s carved out of the richest coral.

Fleldfares, and redwings, and snipes now visit us, and we already see the wood-cock, with bis long fill, and his hlack and grey plumage, hurrying across the open glade, to conceal himself amongst the trees, for he has returned from his long sea voyage, and contrived to land, somehow, unseen by any one, during the night. Now the whole landscape is occasionally buried beneath a mist, the progress of which can he traced as it first slowly arises from the river, spreads over the low meadows heside its banks, hurrying in its folds hedge, and stile, and tree; and looking as if the clouds had dropped down, settled upon, and shut out the seenery. The meadow paths are now wet aud damp; there is a clammy moisture ahout the fallen leaves—a slipperiness on the footways which the trees overhang—a reeking of vapours that ascend in the air—all telling that the work of decay is slowly progressing, and that Nature is busy preparing a hed for the far-distant flowers of Spring. But, amid all this silent desolation, at no season of the year ha which they now and then utter, while they,

Ranged in figure wedge their way, Intelligent of seasons, and set forth, Their aëry caravan, high over seas Flying, and over lands with mutual wing, Easing their flight. The air Floats as they pass, fanued with unuumher'd plumes.

Earling their flight. The air

Rloats as they pase, famed with unumher'd plumes.

Squirrel-hunting is an exciting ammsement amongst hoys in the country during Anthum; for when the leaves have fallen from the trees, this heautiful and graceful little animal can then he secu leaping merrily from brauch to hranch, or sitting contentedly on some moss-covered hough, holding the ripe hrown nuts in his fore paws, and quite enjoying his woodland repast. What shouting, and hallooing, and tearing of clothes, and losing of shoes, and getting cntangled in the briers, is there amongst the hoys while hunting him: and no sooner has some little fellow, after much labour, climhed up the tree on which the squirrel is perched, when, just as the adventurer is about to extend his hand, and, as he thinks, seize the prize hy the husby tall, at ouo leap, and without any apparent effort, away hounds the squirrel to the uext tree, which is probably so strong that all the united efforts of the hunters cannot for a moment shake it. It is only while leaping from hranch to hranch, when the squirrel sometimes misses his footing, and falls upon the ground, that there is any chance of capturing him. Then it is that a dozen hats come off like one, every hoy eager to catch, or cover up the little animal; and many a hat-crown gets crushed amid the scramble in their eager endeavours to seize him. Scarcely any hird forms a more heautiful next than the squirrel. The moss and leaves, and the fibres of trees, are all neatly interwoven together, and generally placed so artfully at the fork of some branch, as to look more liko a knot of the tree itself than a nest. There is scarcely any inhabitant of the wild wood that pays more attention to its young than the squirrel; for, although they are brought forth ahout the middle of June, the parents uever leave them until the next Spring. The following exquisite description of Squirrel-hunting is so truthful and life-like, that any one who has seen a parcel of notsy hoys husily pursuing the little forester, w

Ranging the hedges for his filhert food,
Ranging the hedges for his filhert food,
Sits parly on a hough, his hrown nuts cracking,
And from the shell the sweet white kernel taking:
And from the shell the sweet white kernel taking:
The share with him, come with so great a noise,
To share with him, come with so great a noise,
That he is forced to leave a nut nich broke,
And for his life leap to a neighbouring oak;
The nee to a beech, thence to a row of ashes;
While through the quagmires, and red water plashes,
The hops run, dabbling on through thick and thin;
One tears his hose, the other breaks his shin;
This, tora and tattered, hath, with much ado,
Got through the hiers—and that hath lost his shoe;
That drops his hand, that headlong falls for haste;
Another cries helhind for heing the last:
With stelss and stones, and many a rounding hollow
The little fool with no small sport they follow;

Whilst he, from tree to tree, from spray to spray, Gets to the wood, and hides him in his dray [nest].

In what pleasant situations do we sometimes find those old-fashioned wayside houses, where the tall sign-post steps far out into the road, as if it had come to meet the traveller, and tell him that there he can find both welcome and refreshment. There is something cheerful in the very creaking of the old weather-beaten sign, which is prohably the "Bluc Bell," or the "Old Bull's Head," or perchance the "George and Dragon," or it may be the "Black Bear;" for these are among the most ancient emblems of mine host. It is generally a long, low house, with a hay-window, or two, projecting out, along the angles of which comfortable seats are placed in the inside, so that, on whichever side you look, you have a pretty view up the road or over the fields, which you have not twice to glance at to tell you that you are at last far away in the country. The door-way is generally covered in with a porch, with its pent-house roof; and on each side there is a seat between the pillars, which are painted with green or red-and-while checquers, or sometimes encircled with a rose-tree, woodhine, or jasmine. Facing the hay-window, is a long trough filled with clear water, near to which stand carrious baskets, placed on long slender legs, ready to contain a few handfuls of hay or corn, in case the traveller should not choose to have his steed stabled. Either In what pleasant situations do we sometimes find those old-fashioned wayside or corn, in case the traveller should not choose to have his steed stabled. Either heside this trongh, looking up and down the road, or in the centre of the porch, stands the healthy-looking landlord, with his pipe in his mouth, ever ready to give a welcome good-day to his customers. The har, in which his presty daughter, perhaps, presides, is a perfect pattern of cleanliness and tidiness: everything, down to the very hird-cage, is as clean as hands can make them; and it would fill a catalogue to enumerate all the things which are stowed away in that small space. But it is the great, ample, and sanded kitchen which attracts the eye of the cold and hungry wayfarer. Oh! how different to a smoky, beer-deluged tangroom; for it is here where mive host and his family diag expecting. that small space. But it is the great, ample, and sanded kitchen which attracts the eye of the cold and hungry wayfarer. On! how different to a smoky, beerdeluged tap-room; for it is here where mine host and his family dine, excepting on rare occasions. The floor, though sanded, is white and dry; the tahles have also heen scoured with free-stone; and he who has walked ten miles cannot refrain from throwing hungry glances at the julcy hams, and large flitches which are hung around the wall. Then, the cooking utensils, of hrass, copper, or hlock-tin, all wear such a hright and tempting appearance, that you cannot help looking first at them, then at the couple of plump pullets which are pecking ahout the door, and the ham which has just been cut of, and the sweet-looking greens which you catch a glimpse of through the window in the garden; and, taking off your hat, and rearing up your stick, you have a glass of ale and a crust of hread and cheese, while these good things are in preparation. After this, you sature about for an hour or two, and the landlord, finding that you are about to dine with him, shows you over his garden, orchard, or stables, points out his choicest trees, tells you the quantity of fruit each has horne; and so yon while away a pleasant hour; enjoy a comfortable dinner; and, when refreshed and rested, proceed on your journey again, with a light and happy heart.

Sometimes, in the twilight at evening, you come unaware upon a group of gipses, who are now huddled around the large camp-fire, which throws a warm glow upon their nut-coloured countenances, while their black eyes roll upon you like rounded heads as you pass. On turning the corner of the village, you see the hlacksmith's ruddy forge, and the country gossips who assemble nightly around the smithy fire, to talk over the news of the day. You meet with quiet foot-passengers, who exchange a friendly "good night"—or a light cart hurries past you at a hrisk pace, filled with a merry party, who are returning either from

you at a hrisk pace, filled with a merry party, who are returning either from market or a visit; and you hear their joyous laughter ringing upon the silence, until the clapping of a gate, or the harking of a dog, next arrests your attention. And you wander ou, long after "twilight grey"

Has in her soher livery all things clad

until, high above the dim wood-crowned hill, "Hesperus that leads the starry host" appears with dazzling front upon the blue vault of Heaven; her beauty only dimined when the Moon,

Rising in clouded majesty, at ength Apparent Queen, unveils her peerless light, And o'er the dark her silver mantle throws.

You wander along in wonder, while gazing upon those mysterious worlds which lie mapped out upon the face of Heaven, revolving round and round for evermore—for, whether inhabited or silent, we know not—for He who formed them and hung em in the vast realms of never-euding space, alone knoweth "their end and





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M	W	ANNIVERSARIES, OCCUR-		SUN	73	1	MOON.		DURATION OF M		HIGH WATER	EQUA-	i d
D:	1	RENCIES, FESTIVALS, &c.	RISES.	SETS.	DECLINA-	Risks.	Sourns.		O'Clock. 2h. 4h. 6h.	O'Clock.	Morning. Afternoon	OF TIME.	the Yo
_			н, м.	н. м.	Deg. Min.	H. M.	n. M	H. M.	2h. 4h. 6h.	6h 8h, 10h.	H. M. H. M.	Subtract.	74
1	W	All Saints	6 56	4 31	14 35	11 29		8 26			4 45 5 0		06
2	TH	All Souls. Mich.	6 58	4 29	14 54	Afternoon	4 46	9 22	A SA		5 20 5 40	16 17 30	07
3	F	Term begins	7 0	4 27	15 13	0 52	5 35	10 23			6 0 6 20.	16 17 30	08
4	S	K.Wm.III.landed	7 2	4 26	15 31	1 26	6 24	11 29	7/1 // // 5)		6 45 7 15	16 16 30	0,9
5	S	20THS. AFT. TRIN.	7 4	4 24	15 49	1 56	7 14	Morning.	1999		7 55 8 35	16 14 31	10
6	M	[Gunpowder Plot, 1605	7 6	4 22	16 7	2 26	8 5	0 40	/////////////////////////////////////		9 15 9 50	16 11 31	
7	Tu	Length of the day, 9h. 14m.	7 7	4 21	16 25	2 56	8 57	1 55	191		10 30 11 5	16 8 31	
- 8	W	[L. Mayor's Day	7 8	4 19	16 43	3 24	9 50				11 35 No Tide.	16 3 31	
9	TH	P. Wales b., 1841.	7 10	4 18	17 0	3 55	10 46				0 0 0 25	15 58 31	
10	F	Quarter	7 11	4 16	17 17	4 29	11 45	5 51			0 50 1 15	15 52 31	
11	S	St. Martin. Half	7 13	4 14	17 33	5 9	Morning.	7 13			$\begin{bmatrix} 1 & 35 & 2 & 0 \\ 2 & 25 & 2 & 45 \end{bmatrix}$	15 46 31	
12	S	21st S. Aft. Trin. Britius [Camb Term divi	7 14	4 13	17 50	5 58	0 45	8 30				15 38 31	-
13	rom.	Fomalhaut souths 7h ,3m P.M.	7 16	4 11	18 6	6 54	1 47	9 41			$\begin{bmatrix} 3 & 10 & 3 & 30 \\ 3 & 55 & 4 & 20 \end{bmatrix}$	15 29 31	
	10	1 1 24	7 18	4 10	18 21	7 55	2 48	10 42	158		4 40 5 5	15 20 31	
15		Machutus Alpha Pegasi souths 7h 13m	7. 20 7. 22	4 9	18 37	$\frac{9}{10} \frac{1}{10}$	3 47	11 34			5 30 6 0	$\begin{vmatrix} 15 & 10 & 32 \\ 14 & 59 & 32 \end{vmatrix}$	
16 17	F	Post in the second	7. 23	1 6	18 52	II IN		Afternoon			6 25 6 50	14 47 32	
18		Hugh Bp. of Lin.		4 5	19 21	II 18 Morning.	$\begin{array}{ccc} 5 & 35 \\ 6 & 23 \end{array}$	0 47			7 20 7 55	14 34 32	
	S	22NDS.AFT.TRIN.	7 27	4 5	19 35	0 26	7 10	1 42			8 35 9 10	14 20 32	
20		Edmund King and	7 29	1 3	19 48	1 32	7 54	2 6	200		9 50 10 25	14 6 32	
1	Tu	P. Royal b., 1840 Martyr	7 31	4 1	20 2	2 36	8 37	$\frac{2}{2} \frac{3}{3}$	26%			13 51 32	
22	111	St. Cecilia Day	7 32	2.1	$\frac{1}{20}$ $\frac{1}{5}$	3 39	9 20	2 52				13 34 32	
23	TH	Clement. Old Mart.	, ,	. (20 27	4 42	10 4	3 18			0 20 0 40	13 18 32	28
24	F	he Pole Star due North 8h	- 1	3 58	20 39	5 44	10 48	3 45			1 5 1 20	13 0 32	29
25	S	Catherine. Mh. T.	7 37	3 57	20 51	6 45	11 33	4 17			1 40 2 0	12 41 33	30
26	5	23RDS.AFT.TRIN.	7 39	3 56	21 2	7 42	Afternoon	4 52			2 15 2 30	12 22 33	1
	M	Prin. Mary Adel.	7. 40	3 55	21 13	8 37	1 6	5 34		1 11/2 1/10 1/1/1	2 45 3 5	12 - 2 33	
	Γυ	born, 1833. Cousin to her Majesty	7 41	3 54	21 24	9 29	1 55	6 22		11/2/11/11/11	3 20 3 35	11 42 33	
	** 11		7, 43	3 53	21 34	10 14	2 43	7 14		70 700	3 50 4 10	11 20 33	
30	[H	St. Andrew	7 44	3 53	21 44	$10^{\circ}54^{\circ}$	3 32	8 14		100 (M)	4 35 4 40	10 58 33	5

NOVEMBER.

THE SUN is in the sign Scorpio till the 22nd, on which day he enters the sign

Sagittarius (the Archer)
On the 1st he is 94,210,000 miles from the Earth. He rises on the 1st, at the On the 1st he is 93,210,000 times from the Easth. The rises of the E.S.E., and sets at the E.S.E., by and sets at the S.W. hy W. points of the horizon.

He souths on the 1st, at 16m. 16s.; on the 15th, at 15m. 10s., and on the 30th, at 10m. 58s. hefore noon (common clock time), at an altitude of 24° on the 1st,

at 10m. 38s. herore noon (column erock time), at an annuae of 24 of the 18s, decreasing to 17° on the last day.

The Moon rises between noon and midnight from the 2nd to the 19th; and hetween midnight and 11h. p.m. from the 20th to the 30th. She sets between 3h. p.m. and midnight till the 4th; hetween midnight and noon from the 6th to the 15th; and hetween noon and 34h. p.m. from the 17th to the end of the month.

She is near to both the constellations of Aquila and Sagittarius, on the 18th and 18th an

She is near to both the constellations of Aquila and Sagittarius, on the 1st and 2nd; in Capricornus, on the 3rd; in Aquarius, on the 4th, 5th, and 6th; alternately in Pisces and Cetus, from the 7th to the 10th; in Taurus, on the 11th, 12th, and 13th; in Gemini, on the 14th and 15th; in Leo, on the 16th, 17th, and 18th; in Virgo, from part of 19th to the 23rd; in Libra, ou the 24th and 25ti; in Ophiuchus, on the 26th and 27th; near to Sagittarius and Aquila, on the 28th and 29th; and in Capricornus, on the 30th.

On the 1st she is situated 18° south of the Equator, and is 20 degrees above the horizon when she souths; is on the Equator on the 7th; attains her greatest altitude on the 13th, heing 56 deg. high when she souths; is on the Equator on the 20th, and at her extreme low point on the 28th, being 19 degrees ahove the horizon when she souths.

She is full on the 11th, and new on the 25th, but without an Eclipse at both

She is full on the 11th, and new on the 25th, but without an Eclipse at both

times.

She is near Saturn on the 7th; Uranus, on the 9th; Jupiter, on the 17th; Mercury, on the 23rd; Mars, on the 24th; and Venus, on the 28th.

She is near the same place in the Heavens on the 12th day in the morning, as she was on August 22nd, and she occults the same stars as she did on that day. The Moon at this time will not long have passed her full; the disappearances, therefore, will take place at the full hright limb, and the reappearances will be a very little way from the bright part, at the places as shown in the following diagram.

OCCULTATION OF STARS, NOVEMBER 12, 1848



AND THE PERSON NAMED IN TH	-		-	-		AND THE RESIDENCE OF THE PARTY	-	4000	trickers	No. of Concession, Name of Street, or other Persons, Name of Street, or ot
				Ħ.						M.
75 Tauri will disappear at the place marked	1	at	12	4	55A.M.	and re-appear at the place marked	$_{6}^{6}$ at	12	5	44a.M
Theta 1 Tauri ,,					3 ,,	,,	4 at	12	5	35 ,,
Theta 2 Tauri ,,					22 ,,	**				
A. S. C. 516					41 ,,	**				37 ,,
Aldeharan	- 8	at	12	7	55		9 at	- 12	- 8	28

It is doubtful whether Theta 2 will merely touch the Moon, or whether it will

prove to he an occultation; if the latter, the star would only he obscured a minute

or two, and reappear at nearly the same place as it disappeared.

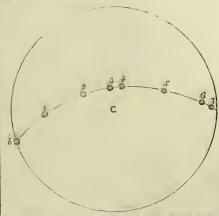
At the time of the reappearance of Aldebaran, the star will be setting at London.

MERCURY is in the constellation of Libra throughout the month.

He sets on the 1st, at 4h. 53m., being 22 minutes after the Sun has set; on the He sets on the 1st, at 4n. 35m., being 22 minutes after the 5un has set; on the 5th, at 4h. 35m., being 11 minutes after Sunset; on the 9th day a transit of Mercury will take place; or in other words the Planet will appear to cross the Sun's disc. This phenomena will be easily seen with telescopes of very ordinary power, using a piece of coloured or smoked glass, to protect the eye from the intensity of the Sun's rays. The following diagram is adapted to the latitude of London, as seen through a telescope that does not invert.

The Planet will first

TRANSIT OF MERCURY ACROSS THE SUN, NOV. 9TH, 1848 touch the Sun's limb



The Planet will first at a point 112° from his highest point reckoned round hy the east or hy the left hand, at 11h. 2m. A.M., at the point marked (b.) At noon he will have passed to the point marked 1; at 1 o'clock P.M., he will he at the point marked 2; and at lh. 44m., he will he at the middle of the transit, appearing at the place marked 3, being a little above the centre of the Sun the centre of the Sun C; at 2 o'clock r.m., his place is shown at 4; during the next hour he will pass through the space he tween 4 and 5; and at 4h. r.m., he will have passed to the point 6; and at the time of the Sun set-

ting the Planet will be near the edge of the Sun as marked at 7.

ting the Planet will be near the edge of the Sun as marked at 7.

On the 8th he will rise at 7h. 27m.; on the 15th, at 6h. 5m.; on the 26th, at 5h 35m.; and on the last day, at 5h. 47m.; these times are 0h. 19m., 1h. 15m.
2h. 1m., and 1h. 57m. hefore the Sun rises, repectively. He will he visible in the morning, before the Sun rises, and very favourably so from the 23rd day. He rises hear the E.S.E. point of the horizon. He is in superior conjunction with the Sun on the 9th, and is at his greatest W. elongation on the 20th.

He is moving westward among the stars at the heginning; is stationary among them at the middle, and is moving eastward among them at the end of the month.

(See the engraving showing the path of Mercury in last month.)

VENUS will be skirting the houndarles of Scorpio and Ophiuchus till the 12th; and in that of Sagittarius from the 13th to the end of the month.

She is an evening star, and sets midway between the S.W. by W., and the S.W. points of the horizon; on the 1st, at 5h. 33m. P.M.; ou the 15th, at 5h. 35m. P.M.; and on the 30th, at 5h. 55m. P.M. Sie Souths on the 1st, at 1h. 31m. P.M.; and on the 30th, at 5h. 55m. P.M. Sie Souths on the 1st, at 1h. 31m. P.M.; and on the 1st, decreasing to 14° on the 30th. At the end of this month she attains her greatest south declination (See below); and, consequently, attains her lowest Meridian altitude during the year.

attains her gleast sum the technical of the bear. She is near the Moon on the 28th.

Maks will be in the constellation of Virgo, on the 1st and 2nd; and in that of Libra, from the 3rd to the 30th.

He is a morning star, and rises near the E.S.E. till towards the middle; at the E.S.E. about the middle; and near the S.E. by E. at the end of the month; at 4h. 23m. A.M., on the 1st; at 3h. 46m. A.M., on the 15th; and at 3h. 13m. at the end of the month.

end of the month.
He souths on the 1st, at 11h 25m, a.m.; and on the last day at 10h, 50m, a.m.
He is near the Moon on the 24th.
Jupiter will be in the constellation Lee throughout the month.
He is principally a morning star, and rises on the 1st at 11h, 20m, p.m.; on the 15th, at 10h, 36m, p.m.; and on the 30th, at 9h, 38m, p.m.; sets about 11h, a.m.
in the middle of the month. He souths on the 1st, at 6h, 49m, a.m.; on the 15th, at 6h, a.m.; and on the 30th, at 5h, 3m, a.m., at the altitude of 53° ahove the S.
horizon. His motion among the stars is very slowly eastward.
He is near the Moon on the 17th.

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Windy, rainy, dark November, which seems as it sent purposely to make us more in love with home. What a rearing there is now in the woods—what a ratting of branches and clashing together of great grey iron boughs, that groan again in their mighty agony, as the storm tries in vain to tearthem from their gnarled and knotty stems. The streams foam and dash and harry on in their headlong course, as if they had now no cause to linger—no flowers to mirror back—no green shady sprays to cover them, but were eager to reach their journey's end, and empty themselves into river or sea, to escape from the blinding rain that is ever coming down heavily. The gardens have a desolate and dreary look; and if a flower still linger behind, it looks like a mourner bending over a grave, and cryving the dead that lie below: it seems lost in the world without its companions, and you are glad when it is gone.

are glad when it is goic.

November is the pioneer of Winter: he marches foremost, and gathers all the decayed leaves into dark hollows and dreary places, where they lie to be blowu and snown upon, until the work of decay and death is completed. The soug-birds

that gladdened our woods and hills are now ar away over the sea: the twitter of the swallows no longer falls upon the ear between the showers, as it did in Spring; nor is there even the murmuring of a bee to vary the monotonous moaning of the wind, and the dull dead plashing of the rain. The eattle stand disconsolate beside the leafess hedges, looking wistfully towards the well-stored farm-yard, as if wondering why they are kept so long from the sing, warm, and well-filled stall. The woodman drags his way wearily towards the forest, trying in vain to whistle the cheerful times which seemed to shorten his journey in Spring, and glad when the short day has drawn to a close. There is a ragged and vagrant look about the clouds, and they seem to wander homeloss about the sky, as if they had no resting-place, but were driven hither and thither at the will of that harsh Overseer the wind. Such are the objects we pick out amid the gloomy shadows of November; but there are spots in the picture which are not wholly dark, and these we will now turu to—scenes which lay on the outskirts of "the forest world of shade"—

The gleamy vales,
And sunny lawns, and streams in hazy light,
Glittering, when that peculiar stillness reigns
As Nature kept a Sabbath; when the leaf
Sbed from the aerial spray, scarce quivering drops
Through the lulled atmosphere.

The Autumn has torn down the green curtains of Summer. She has revealed little morsels of heautiful landscape which had long been shut out, patches of green fields, and stretches of winding roads, the white-washed front of a discrete white washed from the dealers of the grey single of some remote village church which all summer lands green fields, and stretches of winding roads, the white-wasbed front of a distant cottage, or the grey spire of some remote village church, which all Summer long had been hidden behind the trees. Between the openings of the naked bougbs we see where the vales dip down, and the hills rise up. We see many beauties in the form of the surrounding landscape which havo long been concealed. We observe the forms of the evergreens which had been dwarfed by their taller brethren of the grove; we see numberless nests in the hedges and bushes which we have frequently looked into during the Summer, without being able to discover anything more than the dark masses of leaves. We observe a beauty in the grouping and falling of the berries and wild fruits which hang upon the branches, and marvel that their elegant forms have never before arrested the glance; and, above all, the eye is attracted by the number of strange birds which are continually coming over to winter with us. We discover that a flock of sheep in a green turnip-field, with the distant hayrick, the thatched shed, the picturesque feuce, turnip-field, with the distant hayrick, the thatched shed, the picturesque feuce, and the pond of water which the naked trees overhang, would, if well painted, form a pretty foreground in a picture of Autumn. The few hard winter apples that are still left upon the trees, though ouly a few weeks ago they seemed to set that are still tell upon the rees, though only a new weeks ago they seemed to set the teeth on edge by looking at them, have now a rather tempting look; and we perceive that the dark purple berries of the ivy are in keeping with the sombre green of the closely-matted leaves, and the beautiful colours of the fungi that still remain now attract our attention. We see many a rich tint in the falling acorns, and trace in the aurrounding mosses forms and colours as beautiful and delicate as may be found in the choicest flowers; and aometimes, when the weather is mild, we discover flowers that are again blowing, although they have none of the fragrance of Spring. And in such spots-

The hramble hends
Beneath its jetty load; the hazel hangs
With auburn bunches, dipping in the *tream
That sweeps along, and threatens to o'erflow
The leaf-strewn banks,

rom which the piping winds are ever sweeping thousands of the "pale and hectic leaves" into the torrent. Naked and leafless as the woods now nearly are, there is something grand about the great November wind, uplitting its mighty voice, and pealing like an organ through these ancient cathedrals of Nature—these huge temples which God's own hand erected. Who can walk beneath those wide-spread avenues—that vaulted and trellised roof—those gigautic pillars, which the hand of man reared not—the silent workmanship of thousands of Summer nights, without feeling that they are in the presence of Him by whom all things were created? Who can look upon the mountains and hills, the workmanship of His hauds, then glance at the little piles which the builder Man erected, without acknowledging how feeble is the human arm compared to the Power that erected those stupendous monuments? Nature is ever beantiful. Even now the reeds are rocked, and wave their plumy heads beside the forest brook, and we see a grace in their form and motion, which was lost when the leaves of Summer threw their shadows over the scene. The tall bulrush, that feathered chieftain of lake and mere, now dances his able plume upon the wind, and proudly overlooks the vassal-like reeds which rustle about his feet. The fallen leaf sails upon the current, like a fairy bark sporting with every whirling eddy it meets with by the way—then, darting along again with eager speed, as if to make up for the time it had lost. What a babbling the brook here makes, seeming to hold parley with the pebbles which have checked its course, then muttering to itself as it rolls along to where the stem of the mighty tree, which the wind hath torn up by the roots, lies prostrate, and athwart its channel, and there it chafes and churns, and vents its wratb in maddening foam, and endeavours in vain to overleap the bulky barrier. What a desolate air hangs around the ruins of that old wooden wither wells along to where the stem of the mighty tree, which they are and weeks have from which the piping winds are ever sweeping thousands of the "pale and hecand vents its wrate in madeling loan, and endeavours in vain to overleap the bulky barrier. What a desolate air hangs around the ruins of that old woode bridge, which years ago has been impassable; what piles of moss and weeds have gathered around the dark and slimy planks, some of which rock and sway beneath the force of the torrent, and, though shorn of their strength, still defy its power; for

The piles that they stand on are green with decay, And half buried with weeds that to and fro sway In the eddy and foam, both hy night and by day.

Sometimes the landscape is enlivened during this month by the loud whoop and holloo of the fox-hunters; and we see streaming along the hill-side the mounted horsemen in their scarlet coats, while the mottled hounds show like a patch of dusky white upon the sloping shoulder of the uplands. Away they sweep over hedge and fence in their headlong career—they pass the mill—they sweep over neage and rener in their negation deareer—toey pass the mini—farm leap and awim the brook; they are shut out for a moment by the large farm which rises up on the edge of the valley; theu away they burst again in the direction of the little hamlet which they can just distinguish by the tapering spire that "points its tapering finger to the sky." But see, they are at fault! Reynard has doubled somewhere beside yonder little coppice, and for a time bidden defiance to all his pursuers. That cold eastern wind is unfavourable to the scent.

In our eye, the fox is a beantifully formed animal; and we have never seen In our eye, the fox is a beamting formed animal; and we have never seen his red skin and bushy tail sweeping through the brown fern, or glidling stealthily along the edge of the forest, without a feeling of delight; for he is, beyond doubt, one of the oldest inbabitants of our ancient British woods. He went prowling about the roota of our primeval oaks, with his broad head and sharpered snout, ages before a Roman galley ever grazed the pebbles upon our beach; for we find his fossil remains amongst those of extinct animals, which, doubtless, lived in England long before the early Cymry sailed through the misty ocean, and named our coast "the country of sea-cliffs." Even then he burrowed in the ground our coast "the country of sea-cliffs." Even theu he burrowed in the ground during the day, and ranged abroad in the night, prowling about the forest-homes of the first ancient settlers, who erected their huts in the wild solitude of our gloomy old woods, and who, for aught we know, piled up the giant relies of stonchenge. He is associated, in our mind, with many undated changes, and has a great claim on our respect for his antiquity alone. True, the fox is a thief; but it must live somehow; and who can tell what lesser vermin it may destroy, to make up for the few dozens of poultry which it occasionally carries off? That the fox is an affectionate mother we have proof, as she has been seen to carry off one of her cubs in her mouth, even when the hounds have been in purauit of her: she has thus boldly endangered her life to save her young. Such a trait as this surely makes up for a thousand petty delinqueucies. She is very partial to rabbits, and woe be to the warren on the ledge of which she is located. When the fox sleeps, he coils himself round like a dog; he has a great objection to light, and few animals can ace better in the twilight or dark than to jection to light, and few animals can ace better in the twilight or dark than he can. The fox has before now been known to run twenty-five miles without a check, and in aeveral instances which are on record has kept the lead of the

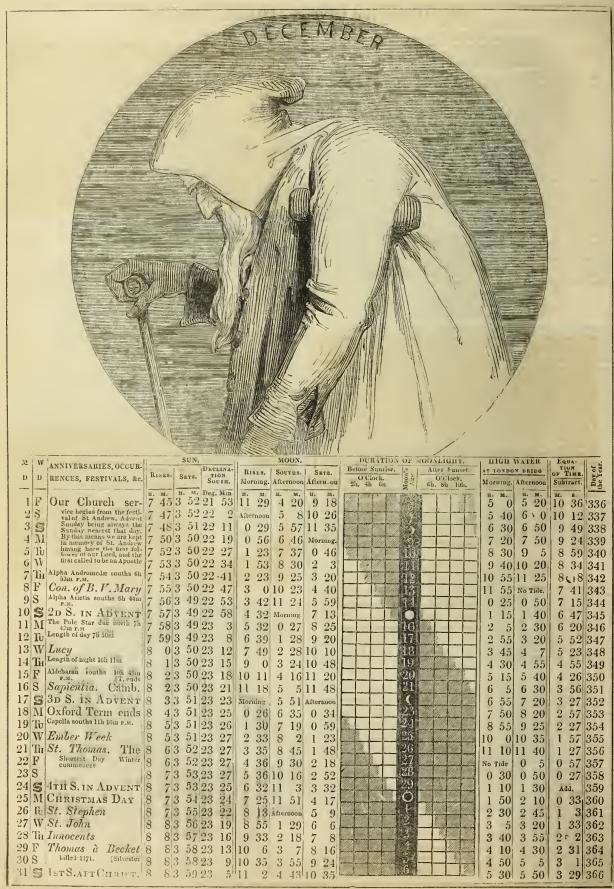
hounds for an hour and a half. We have once or twice in our lives, while aojourning at a louoly road-side inn, come in contact with that picturesque and nocturnal character—an Earth-stopper; who, with his little pony, terriers, lanthorn, spade, and mattocks, has just pulled up to drink his pint, before he acts out on his nightly round. Poor old fellow! on the night which precedes a hunt, he is compelled either to turn out of his warm bed, or leave his comfortable fireside, and, while the fox is out feeding, to stop up the entrance of his burrow or hole; so that when Reynard returns, he sees the door of his house closed, and is compelled to find a shelter where he can. Sometimes the old Earth-stopper has to make a circle of miles, and it is only in the middle of the night that his work can be done, for were he to stop the earths either early in the evening or in the morning, he would be likely enough to fasten up the fox in his burrow, instead of keeping him out, that be may be in readuess when the hunters meet. It is the Earth-stopper's business to become acquainted with every hole which the fox hides in; and while he is out feeding, to stop these places up with thorns, furze-bushes, earth, or stones; so that during the hunt on hounds for an hour and a half. We have once or twice in our lives, while aoevery note which the tox flows in; and while he is out feeding, to stop these places up with thorns, furze-bushes, earth, or stones; so that during the hunt on the following day the fox may not be able to run under the earth, and baffle the hounds; and many a wintry night is the old man out alone, following this cheerless occupation. I am no advocate of fox-hunting; I like to see its black feet pattering through the fallen leaves, for I have always thought it unfair that there should be so many more horses and hounds to one now for. It is so my there should be so many men, horses, and hounds, to one poor fox. It is so unlike that old English system of fair play, which allows only of one enemy at a

Frequently during Autumn the heavy rains which descend flood the low counfrequently during Autumn the neavy rains which descend nood the low Competities beside rivers for miles around, sometimes breaking through the embankments before any one is prepared for such a disaster, and rushing into the fields where the cattle are still left to pick up what they can. A strange appearance does a country present thus laid suddenly under water. You see cottages and hayricks half buried; hedges, whose outlines you can only trace by the topmost twigs which rise above the surface; and far out to the foot of the opposite hills, when we have few days goe a group open landscape; is now, with the exception. what was but a few days ago a green open landscape, is now, with the exception of a few half-buried objects, one wide watery scene. Footpaths and gates are no longer visible; you can only tell where the broad brown level highway went winding along, by the marks of some particular tree that grew here and there beside it:—and where the hay and atraw and broken boughs have drifted and lodged against the trees, or the uncovered tops of the bigher bedges; there water-rate and water-shower and mine of all descriptions and waters and water and waters and mine of all descriptions and water shower and mine of all descriptions and water shower and mine of all descriptions and water shower and mine of all descriptions and water shower and mine of all descriptions and water shower and mine of all descriptions and water shower and mine of all descriptions and water shower and mine of all descriptions and water shower and mine of all descriptions and water shower and mine of all descriptions and water shower and mine of all descriptions and water shower and mine of all descriptions and water shower and mine of all descriptions and water shower and water shower and mine of all descriptions and water shower and mine of all descriptions and water shower and mine of all descriptions and water shower and mine of all descriptions are all the shower and mine of all descriptions are all the shower and mine of all descriptions are all the shower and mine of all descriptions are all the shower and water shower and mine of all descriptions are all the shower and mine of all descriptions are all the shower and mine of all descriptions are all the shower and mine of all descriptions are all the shower and mine of all descriptions are all the shower and mine of all descriptions are all the shower and mine of all descriptions are all the shower and mine of all descriptions are all the shower and mine of all descriptions are all the shower all the shower and mine of all the shower and mine of all the shower all the shower and the shower all rats and water-shrews, and mice of all descriptions, and weazels and ferrets, friends and foes, all huddled together, may be found sheltering, and at peace, amid rats and water-sucws, and the friends and foes, all huddled together, may be found sheltering, and at peace, amough the terrors created by such a wide spreading deluge. Here the naturalist may meet with objects which he has hunted for in vain for years, for all that burrows underground, conceal itself amid the reed-covered banks, or hides under the thick entangling hedgerows, is now compelled to brave the unwelcome light of day, for everything excepting man possesses the power of awimming for a considerable time; he alone finds it difficult to "keep his head above water."

This is the end of Autumn, and so few materials does the month present that I must draw upon one of my former works for the conclusion. "We now hear the busy flail in the barn, as the thrasher pursues his monotonous task from day to day, never lacking company, for he is surrounded by the whole family of fowls, who

never lacking company, for he is surrounded by the whole family of fowls, who are ever ready to hunt up a neglected ear that has escaped from his hearty blows. are ever ready to hunt up a neglected ear that has escaped from his hearty blows. In the farmyard, we see the cattle standing knee-deep in the broken straw which the thrasher has turned out, and lowing wistfully over the fence, as if they wondered what Summer had done with all its green, and seeming to say, as plainly as they can speak, that they like not the dry provender which is given to then, and care not how soon they are again ankle-deep in the rich luxuriant grass. We have now rainy days and foggy nights, that come so sudden and thick over the landscape we can scarcely see 'our way before us.' Travellers take the wrong road; and farmers, who have stayed a little too late at the market-town targets get into no end of gueen brille naths and all at once find the reaches. wrong road; and farmers, who have stayed a little too late at the market-town tavern, get into no end of quere bridle-paths, and all at once find themselves anywhere excepting 'at home.' Lamps in the streets bewilder one terribly, and it would be difficult to tell of our 'whereabout,' where it not for the old men, who cough one against the other as they pass, and give us warning that we are near the lame or turning which they are about to enter—The fogs now close around one like a great coat that has been steeped in the river, seeming to fit all the better because no one can see it, but wrapping us all over in its uncomb rlable cold—and we for the twentient time discover that our own buttone hearths are more comfortable than the crowded and fashionable rooms we have inst united." we have just quitted.





DECEMBER.

THE SUN is in the sign Sagittarius till the 21st, on which day he enters the sign

Capricornus, at 3h. 59m. r.m., and Winter commences.

On the 1st he is 93,630,000 miles, and on the 31st, he is 93,410,000 miles from the Earth. He rises on the 1st, near the S.E. by E., and sets near the S.W. by W.; on the 21st, he is at his greatest south declination, and rises and sets 4° S.

the above points of the horizon. He souths on the 1st, at 10m.36s.; on the 15th, at 4m. 26s.; and on the 23rd, at 27 seconds before noon; on the 24th, at 3s. afternoon; and on the last day, at 3m. 29s. afternoon (common clock time); at an altitude of $16\frac{1}{6}$ %, on the 1st; decreasing to 12° on the 21st; and afterwards increasing to $15\frac{1}{6}$ ° on the last day.

The Moon rises between noon and midnight from the 2nd to the 16th: and be-

tween midnight and 11h. P.M. after the 17th; she sets before midnight till the 3rd; between midnight and noon, from the 4th to the 17th; and between noon and

between midnight and noon, from the 4th to the 17th; and between noon and 11h. P.M. after the 17th.

She is in the constellation of Aquarius, on the 1st, 2nd, and 3rd; in Pisces and Cetus, alternately, from the 4th to the 7th; in Taurus, on the 8th, 9th and 10th; in Gemini, on the 11th and 12th; in Leo, from the 13th to the 16th; in Virgo, from the 17th to the 20th; in Libra, on the 21st and 22nd; in Ophiuchus, on the 23rd and 24th; near to both Saigittarius and Aquilla, on the 25th and 26th; in Capricornus, on the 27th; in Aquarius, on the 28th, 29th, and 30th; and in Pisces on the 31st

Pisces, on the 31st.

She is near Saturn, on the 4th; Uranus, on the 6th; Jupiter, on the 14th; Mars, on the 23rd; Mercury, on the 24th; Venus, on the 29th; and Saturn, on the 31st.

MERCURY is in the constellation of Libra till the 8th; in that of Scorpii on the 9th, and skirting those of Scorpio and Ophluchus from that time to the end of the year.

He rises near the E.S.E. point of the horizon throughout the month; on the 1st, He rises near the E.S.E. point of the horizon throughout the month; on the 1st, at 5h. 52m.; on the 1st, at 6h. 53m.; and on the last day, at 8h. 0m.; these times are 1h. 53m., 1h. 9m., and 0h. 8m. before Sunrise; and, therefore, during the first half of this month, the Planet is favourably situated for observation. He 8 monting eastward among the stars, and on the 9th and 10th he is very near Beta Scorpil, and on the 17th, he is a few degrees distant from Antares. From the beginning of the month till the 20th, he is near Mars, more particularly on the 7th day. The paths of these Planets are shown, for this month, in the annexed engraving.

PATHS OF MERCURY AND MARS IN DECEMBER, 1848



Scale, 15 degrees to one inch.

VENUS will be in the constellation of Sigittatius till the 13th, and in that of Capricornus from the 14th to the end of the month.

She is an evening star, and sets at 5h. 58m. P.M., on the 1st; at 6h. 34m. P.M., on the 1st; at 7h. 24m., on the 1st, and at 7h. 24m., on the 1st, it at 6h. 3.4m. P.M., and near the W.S.W. at the end of the month. She souths at 2h. 15m. P.M., on the 1st; at 2h. 33m. P.M., on the 1sth; and at 2h. 49m. P.M., on the last day. Her meridian altitude on the 1st day is 14°, which increase to 16° on the last day. She is near the Moon on the 29th.

Her motion among the stars is eastward throughout the month, and her relative position with respect to them is shown in the following engraving:—

PATH OF VENUS IN THE MONTH OF DECEMBER 1848.



Scale, 15 degrees to one inch.

Mars will be in the constellation of Libra till the 6th; in that of Scorpio, from the 6th to the 14th; and will be moving at the boundaries of Scorpio and Ophiuchus from the 15th to the end of the year.

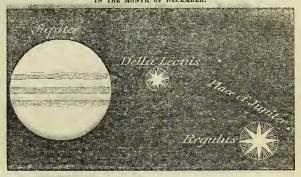
He is a morning star, and rises near S.E. by E. on the 1st, at 3h, 10m. A.M.; on

He is a morning star, and rises near S.E. by E. on the 1st, at 3h, 10m. A.M.; on the 15th, at 2h, 35m. A.M.; and on the 31st, at 2h. 16m. A.M. He souths on the 1st day, at 10h, 48m. A.M.; and on the 1st day at 10h. 20m. A.M. He is near her the Moon on the 23rd; on the 7th and 8th he is near Mercury; on the 9th, 10th, and 1th, he is near Beta Scorpii, and about the middle of the month he passes a faw degrees aboyé Antares. His path with relation to that of Mercury, and to these stars; are shown in the preceding engraving.

Interest will be in the constellation Leo throughout the month.

He is visible through the greater part of the night. He rives on the 1st, at 9h. 35m. p.M.; on the 15th, at 8h. 40m. p.M.; and on the 31st, at 7h. 32m. p.M.; and he sets at about 9h. A.M., at about the middle of the month. He souths at the altitude of 53° on every day; on the 1st, at 4h. 59m. A.M.; on the 15th, at 4h. 0m. A.M.; and on the 31st, at 2h. 59m. A.M. He is stationary among the stars at the beginning of the month, and moves slowly westward at the end of the month, but to the haked eye he occupies the same relative position to the stars throughout the month, and he is situated a few degrees east of Regulus. His path and telescopic appearance are shown in the following diagram. The Moon is near him on the 14th.

APPEARANCE OF JUPITER, AND HIS POSITION RELATIVE TO NEIGHBOURING STARS IN THE MONTH OF DECEMBER.



Length of Day, or number of hours be-		Time of	JUPITER'S SAT		OCCULTAT	TIONS OF STARS BY THE D	400N.
number of hours between sunset.	Longest Day of Twilight	Twilight ending.	Ist. Sat. Immersion. I.	Emersion. E.	Names of the Stars.	Times of disappearance and re-appearance of the Star.	At the dark or bright limb of the Moou.
1 H. M. 8 7 7 58 9 7 53 13 7 50 17 48 21 7 46 25 7 47 29 31 7 50 31	H. M. B 25 41 A. M. A. S 25 41 A. M. A. S 34 5 46 , S 551, S 44 A. S 557, S 44 A. S 46 6 0, M. S 46 6 2, M. S 5 56 3, M. S 46 6 3, M. S 5 57 M. S 46 6 3, M. S 5 57 M. S 46 6 3, M. S 5 57 M. S 46 6 3, M. S 5 57 M. S 46 6 3, M. S 5 57 M. S 46 6 3, M. S 5 5 5 M. S 5 5 M. S 5 5 M. S 5	H. M. 5 56P.M 5 56 5 56 5 57 5 58 5 59 6 3 6 5	N. M. M. 1 2 36 A.M. 1 1 2 36 A.M. 1 1 1 1 1 1 1 1 1	D. H. M. T 7 11 51 P. M. I 15 2 26 A. M. I 22 5 2 ,, I 3rd. Sat. 5 11 57 P. M. E 13 0 22 A M. I 13 3 55 , E 20 4 19 ,, I 20 7 52 ,, E	n Piscium 85 Ceti N Tauri Omicron i Sextantis	D. H. M. 4 5 36 P. M. 4 6 50 " 7 10 9 " 7 10 51 " 6 10 8 21 " 10 9 20 " 6 16 0 35 A. M. 16 1 28 "	Dark Bright Dark Bright Bright Dark Bright Dark

TIMES OF CHANGES OF THE MOON,	a u		RIC	AHT ASC	ENSION	S AND D	ECLINA:	TIONS OF	F THE P.	LANETS.			
TIMES OF CHANGES OF THE MOON,	₽,	MERC	UKY.	VEI	NUS.	MA	RS.	JUP	ITER.	SAT	URN.	URAD	NUS.
And when she is at her greatest distance (Apo- gee), or at her least distance (Perigee), from the Earth, in each Lunation.	Days of Month	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North.
First Quarter 3D, 8H, 6M, P.M. Fell Moon 10 11 44 A.M. Last Quarter .17 11 3 A.M. NEW Moon 25 4 22 P.M. Pericee 9 6 P.M. Apogee 22 6 A.M.	1 6 11 16 21 26		18 10 20 16 22 4 23 28	18h.56m 19 23 19 49 20 15 20 40 21 5	24 1 23 5 21 52 20 24	15h.30m 15 45 15 59 16 44 16 29 16 45	18° 57′ 19 49 20 37 21 20 21 59 22 32	9h.40m 9 41 9 41 9 40 9 40 9 39	14 46 14 47 14 50 14 55	23h.22m. 23 22 23 23 23 23 23 24 23 25	6° 35′ 6 31 6 27 6 21 6 15 6 7	1 9 1 9 1 9 1 9 1 9	6° 43' 6 41 6 39 6 38 6 38 6 37



Full knee-deep lies the winter snow,
And the winter winds are wearily sighing
Toll ye the church bell sad and slow
and tread softly, and speak low,
For the old year lies a dying.

Tenn:

Inose who have read that exquisite little song of Shakspeare's, at the close of 'Love's Lahour Lost "—and who is there that has not?—can never forget the perfect and finished wintry picturo which every line presents. The cicles are first seen hanging beside the wall like great long, cold, bright-pointed spear-heads, which, only to look at, causes Dick, the shepherd, to blow his tingling nails more eagerly; to stamp, and jump, and shake off the clouted snow from his heavy shoes, as he beats his numbed feet upon the ground. Tom, who is scated heside the large old yawning kitchen fire-place, jumps up as if he were struck, by the head of a cross-bolt, when he sees Marian enter, with her nase "red and raw," her milk starred and frozen, in the clean white pall, running lown over the bright, cold, polished boops, on which it has congealed, like beaded pearls. Tom wants no summoning; but, leaping up, with a "God a mercy," hurries off to the log-house, and, shouldering a couple of snch mighty locks as could only he hunt in the huge old-fashioned fire-places of Shakspeare's day, rushes into the large hall without ceremony, well nigh stumbling wer the great shaggy stag-hound, which lies stretched out at the foot of the old Knight, wbo, seated in his high-backed oaken chair, watches the sparks, as they to dancing above the quainty-fashioned hand-ir.rs, up the wide dark chimney, and rulss his hands for very cold. Without, the wind is hlowing, heak and bitter, whistling round the gable-ends of the anclent mansion, yet scarcely turning the frozen weathercock, while heside the hedges, which stretch along the "foul

ways," the hirds sit shivering and brooding in the snow—cold, with all their feathers, and scarcely able to peck the frozen herries, though their pointed beaks are rendered sharper by hunger. Sunday comes, and in the old, cold, grey country church, where the figures of Knights are freezing in iev mail, as their grim effigies lie stretched out with folded hands, the old Knight, having left his hall, and his log fire, can scarcely hear a word the parson says, for the loud and incessant coughing. One aisle coughs against the other; north answers south—the sound is contagious; it is caught in the chancel, and all the rounded periods of the old Divine are lost amid that never-ceasing chorus; and the old Knight is thankful when he again places his feet upon his own hearth, and sees his bowl of smoking lambs—wool placed before him, on the surface of which the roasted crabs hoh and hiss, as they are popped in hot, from the red logs which Tom had piled upon the fire. Outside, the staring owl is crying. "To-whit, too-whoo," somewhere about the red-hricked twisted chimnies. Such is the picture which the immortal Poet has drawn of Whiter in twelve hrief lines, each of which would form a text for a longer passage than we have written as a summary of the whole.

Now the hrief days are cold, cheerless, and gloomy; the woods are naked and desolate; there is a sad, leaden, inclaucholy colour about the sky; the open country is silent, the fields are empty, the laues abandoned by the village children, and, excepting the rohin, you bear not the voice of a hird amid the who's

landscape. You wander on in the direction of the village, and there, upon the large frozen pond, surrounded by a few aged willows, you behold a group of bardy rustics amusing themselves with the bealthy exercise of sliding, and making a strange, hollow, and unearthly sound, as they run upon the ice. You see the sportsman far off, with his dogs and gun, and behold the white smoke rolling beside the hedge in the valley, while the report awakens the low and sleeping echoes. Further on, along the frozen and cheerless road, you see the village carrier's grey tilted eart, rocking between the naked hedgerows, as it moves slowly on past the cold white guide-post, by the embankment which is covered with withered and hoary grass, beside the long plantation where the snow is piled beneath the dark green fir trees, past the reedy pool where the flags stand with their sharp frozen edges, looking as if they would cut like a sabre, so cold, keen, and piercing do they appear.

Dreary would December be, did it not bring with it merry Christmas, with its bolly, and ivy, and mistletoe, through the leaves of which peep the scarlet, and purple, and dull white berries, giving a green and summer appearance to our rooms, and throwing a cheerfulness around our heartbs. We see the laden coachrolling past our window, piled high with game, hares, and pheasants, and great white geese, and black turkeys, whose plumage the wind blows back as they swing suspended from the roof; conjuring up visions of huge comfortable fires, well-spread tables, and happy faces, all congregated to do honour to good Old Christmas, whom Southey has beautifully drawn as seated beside the high-heaped hearth in his great armed-cbair, watching the children at their sports, or pausing at times to stir the lunge fire, and every now and then sipping the bright brown ale. For nights before the happy season arrives, we hear the village bells, awakening the surrounding silence by their silver music, and throwing a cheerful sound over the wild wintry landscape. When the mo

Some say, that ever 'gainst that season comes Wherein our Saviour's hirth is celebrated, This hird of dawning singeth all night long.

Or we turn to those bye-gone times, so beautifully and feelingly described by Irving, who says:—"Christmas seemed to throw open every door, and unlock every heart. It brought the peasant and the peer together, and blended all ranks in one warm generous flow of joy and kindness. The old halls of castles and mauor-houses resounded with the harp and the Christmas carol, and their ample boards groaned with the weight of hospitality. Even the poorest cottage welcomed the festive season with green decorations of bay and holly; the cheerful fire glanced its rays through the lattice, inviting the passenger to raise the latch and join the gossip knot huddled round the hearth, beguling the long evening with legendary jokes and oft-told Christmas tales."

In our eye, Christmas never looks so beautiful as when it has been ushered in by snow, and frost, and rime; when the batched roofs of the cottages are whitened over, and the branches of the trees are laden with feathery flakes; when the ivy that covers the grey and weather-beaten church-porch is half buried beneath the weight of accumulated snow, as if

Nature, in awe to Him, Had doffed her gaudy trim, With her great Master so to sympathise, Hiding her guilty front with inuocent snow.

Such a scene, witnessed under one of those cold, clear, blue skies which sometimes hangs over the earth in December, with the cottage chirmles sending up their columns of pale silver smoke, and a group of happy faces emerging from the ancient village church, sighing or smiling alternately as they recognise a child or a relation who has walked miles to bid them a merry Christmas—or, as they glance at the surrounding graves, and think of those who will uever more sit at the high-piled table, over which the mistletoe branch again hangs, as it did in the days of old. Scott, in the following lines, has graphically described these ancient festivities: ancient festivities :

The fire, with well-dried logs supplied, went roaring up the chimney wide; The huge hall-table's nokeu ince, Scrubbed till it shone, the time to grace Rose then upon its massive board No mark to part the Squire and Lord. Then was brought in the lusty hrawn By old hlue coated serving man

Then the grim hoar's head frowned on high, Crested with bays and rosemary.

England was merry England when Old Christmas brought his sports again: "Twas Christmas broaded the mighties: ale, 'Twas Christmas told the merriest tale; A Christmas gambol of would cheer The poor man's heart through half the year.

Those who have looked upon the shadows of the trees as they are reflected Those who have looked upon the shadows of the trees as they are reflected upon the ground at this season of the year, cannot fail at being struck by the beautiful forms which they present. Every twig and branch is as clearly made ont as if drawn with a dark pencil upon white paper; there you see endless patterns for embroidery and netting—open-work, square, or diamond shaped threads, that seem to run into squares and ovals, crossing and turning in every imaginable form. In frosty weather, almost every object we look upon is beautifully marked, from the ragged flakes that hang upon the moss-covered boughts—the crimson betries, that seem enerusted with the whitest silver—the dark leaves the evergreens, along which run pearly lips of frost-work—the hadded grows

Wistful looks, to wish that the air was warm enough to sing in; and if an unusually fine day should break out by the close of the next month, they will be seen trying their wings a little way up amongst the trees, and scattering around a few stray notes; and sometimes, at this season of the year, we see the porch of a cottage wreatbed with the China rose, whose pale blossoms throw out a faint sweet perfumo, and, with the green foliage, form a Summer-like scene amid the gloom, and cloud, and darkness of mid-Winter. The author of "Waverley" has left us a most graphic picture of the ennui which sometimes besets the hardy sportsman at this season. It is full of minute and excellent painting, and abounds in those little touches which tell that it has been struck off from the life, and is worthy of a place beside the little gem which we have commented npon at the opening of the present month.

When lank December glooms the day.

When dark December glooms the day, When dark December glooms the day,
And takes our Autumn joys away;
When short and scant the sunheam throws
Upon the weary waste of snows
A cold and profitless regard,
Like patron on a needy bard
When sylvau occupation's done,
And of or the chimuey rests the gun,
And san in back, shing and, and spear
When with the shing of and and spear
When with the shing of the shing of and grey hound with his length of limh
And pointer, now employed no more,
Cumber our parlour's narrow floor When in his stall the impatient steed Is long condemned to rest and feed; When from our snow-encircled home, Scarce cares the hardiest step to room, Since path is none, save that to bring The needful water from the spring; When wrinkled news-pace, twice conned o'er Bexulles the weary hour no more, And darkling politician crossed, Inveighs against the lingering post; And sanswiring housewife sore complains Of carriers' snow-impeded wains;—When such the country cheer, I come, Well-pleased, to seek our city home.

The kitchen garden is worth peeping into at this time, when there is so little to be seen in the out-of-door world. The earthed-up celery beds bave a fresh and green appearance, and the lettuces which were planted late, wear a lealthy Spring look; while cauliflowers, kale, brocoli, cabbages, and greens of every description, have now a crispy and tempting tenderness, which is fully appreciated when they come to throw their odour around the table, as they are placed beside the red and juicy ham, and the well-fed pullets. If a hare or rabbit cross our path, we scarcely regard them with the eye of a naturalist now, but think what a flavour there would be about the one jugged, and the other, with a few accessories, what up under the comportable crust of a pie.

what a havour there would be about the one juggest, and the other, with a few accessories, wrapt up under the comfortable crust of a pie.

The rosemary flowers this month; and there were few plants held in higher esteem than this by our ancestors. They used it to stir up the spiced Cbristmas tankard; it was also dipped in their drinking cups at weddings, and borne before the bridal party as they went to church. It was strewed upon the dead; and Herrick, in allusion to these customs, says that the rosemary

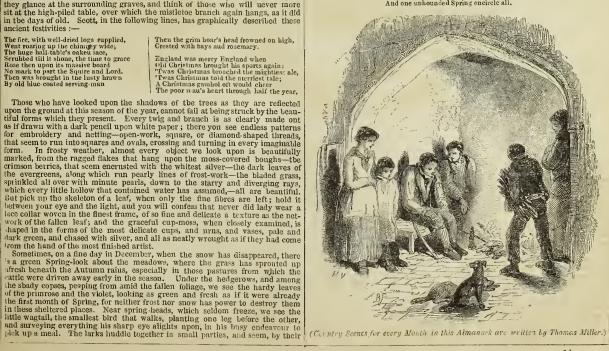
Grows for two ends, it matters not at all, Be it for my bridal or my burial.

I shall conclinde the description of this month by a snow-scene, taken from my "Pictures of Country Life," descriptive of a ride over a cold, eheerless common:—"The snow had fallen all night long, and continued throughout the day without ceasing. Over the wide, bleak, unsheltered common, it lay deep and untrodden, blown here and there into wild, fanciful ridges, just as the ground rose and fell, or where the wind had whirled it; and it was only by some white-covered hillock of stones, a furze bush of taller growth, the remains of an aged bawthorn, and the relies of an old finger-post, that a practised eye was enabled to trace the winding of the road. All around hung the low, dull, leaden-coloured sky, so low, that, as far as the eye could stretch, it seemed to rest everywhere upon the snow, save where, on the furthest rim of the horizon, the level monotony of the line was broken by a steep slate roof, now covered with snow; and that was all which stood visible of the Union Workhouse, for the rest of the building was lost in the distance. It was so cold and cheerless a day, that of the building was lost in the distance. It was so cold and cheerless a day, that not even a donkey—the hardiest defier of wind and weather—was to be seen in the whole wide range of the sky-bounded common, for even he had sought a shelter in some unseen hollow; nothing stirred amid the wild solitude of that wintry scene."

The close of December brings with it one great consolation—the shortest day

is past, and, after a few more evenings, we shall see them slowly leugthen; and when the snow-drop appears, we know that

The storms of Wintry time will quickly pass, And one unhounded Spring encircle all.



THE WEATHER IN ENGLAND.

In a country like England, where the changes of the weather are so frequent and its kind so very different within a sbort interval of time, the subject of the weather is constantly before every person.

To very many persons their notice of the weather is confined to noting its changes by popular signs; and it is remarkable to what an extent popular prejudice influences the minds of many persons. To those persons who study the weather as a science, or to a useful purpose, the preceding remarks on the barometer will be interesting. The following remarks upon the weather in each month, have been deduced from the Greenwich observations of 1841, 1842, 1843, and 1844; the countries sprice of are those deduced from the general results of the the contributes sprice of are those deduced from the general results of the first persons.

month, have been deduced from the Greenwich observations of 1841, 1842, 1843, and 1844; the quantities spoken of are those deduced from the mean results of all those years, from the observations of the barometer, and of the dry and wet bulb thermometer, as taken simultaneously at the National Observatory.

January—This is usually the ecidest month of the year; its average temperature from the four years Observatory observations was 36° 4 (which is read 36° and four-tenths of a degree); and the average daily range of the reading of the thermometer was 7° 6; the average amount of water mixed with the air was such that if if had been all precipitated at one time it would have broduced water to the depth of 3 inches on the earth; this water was so sprace that there were two grains and six-tenths in a cubic foot of air. The degree of immidity of the air was 91, were complete saturation would be represented by 100; so that had there been three-tenths of a grain only more in a cubic foot, tho air would have been quite saturated. The average weight of dry air—that is, air deprived of all moisture—is such as to balance a column of mercury, 29in. 552 high, and the weight of a cubic foot of air, under the average degree of humidity, beat, and pressure, was 552 grains. The average fall of rain is about 1½ inches, and the sky is three-fourths covered by cloud. Upon an average the coldest day in the year usually occurs on or about the 20th of this month.

in the year usually occurs on or about the 20th of this month,

February—The general damp state of the air which prevails in January,

mully also extends to this month. Upon the average of the preceding four years,
the increase of heat over that of January is only four-tenths of a degree, its average

temperature being 36° 8, and its average daily range is 9°½. The average amount

of water, and degree of humidity, is the same as in the previous month. The average

weight of dry air was such as to balance a column of mercury 29 inches 455 high,
and the weight of a cubic foot of air, under its average heat, humidity, and pre
sure, was 549 grains. The fall of rain usually amounts to 1½ inches, and the sky is

menually three-fourths covered by cloud. Frost and snow are frequent in this month,
as well as cold rain and sleet; yet, a few occasional fine days occur, exhibiting a

great contrast to the usual weather of the mouth. The general character of this

month is uncertainty, and one of alternate change. Towards the end of the

manth the San begins to have considerable power.

Mach.—The temperature this month advances 7° 1, beingthe greatest increase

of heat from one month to the next of any in the year. The average daily range

Macri.—The temperature this month advances 7° 1, being the greatest increase of heat from one month to the next of any in the year. The average daily range of temperature is 11° 8; the average amount of water mixed with the air is such that, if it were all precipitated at any one time, It would produce water to the depth of 3½ inches on the earth; and this water is so spread that 3 grains is in a cubic foot of air. The degree of humidity is 86, complete saturation being represented a cubic foot of air; so that there is an increase of water in the air, but the temperature has outstripped this advance, and the air becomes in a drier state. The average weight of the atmosphere of dry air is such as to balance a column of mercury 29 502 inches high; and the weight of a cubic foot of air, under the average degree of humidity, heat, and pressure, is 543 grains. The average fall of rain amounts to 1½ inches, and the sky is less cloudy than in the two preceding months. With this month the spring quarter commences. Gales of wind may be expected at about the time of the Equinox.

ATRI.—The mean temperature of the air Increases only 4°; the average temperature of the month is 47°8; the average daily range is much increased, and

perature of the month is $47^{\circ}8$; the average daily range is much increased, and now amounts to $17^{\circ}\frac{1}{2}$. The average amount of water mixed with the air would produce very nearly four inches in depth on the carth's surface, if all were precipi-tated; and this is spread so that rather more than three grains and a quarter are in a cubic footlof air. The degree of humidity is reduced to 81, and it would require

produce very learly holf inches in depth of the cartin's silfrace, it all were precipitated; and this is spread so that rather more than three grains and a quarter are in a cubic foot of air. The degree of humidity is reduced to 81, and It would require more than three-fourths of a grain of water additional to saturate a cubic foot of air, under the average heat, humidity, and pressure, is 540 grains. The average fall of rain is but little more than one inch, and the sky is the freest of cloud of any in the year. In this month the change in the appearances of Nature is very striking; the trees put on their green leaves, and the meadows begin to assume a varied appearance. Frequent showery weather.

MAX—The temperature of the air increases 6°; the average for the month being 53° 8, and its average daily range is 16°2. The average for the month being 53° 8, and its average daily range is 16°2. The average amount of water mixed with the air is such, that if it were all precipitated at once, it would produce water to the depth of 4½ inches; and this is spread in such a way that the average quantity in a cubic foot of air is four grains nearly in weight. The degree of lumidity is 83; and it would require three-fourths of a grain additional of water to each cubic foot of air to saturate it. The average weight of the atmosphere of air, deprived of all moisture, is such as to balance a column of mercury 29 inches 426 in heighit; and the average weight of a cubic foot of air, under the average heat, humidity, and pressure, is 534 grains. The fall of rain usually amounts to two inches, and the sky is about six-tenths cloudy.

June—The advance of the temperature continues, and amounts to 19° 1 on the average. The amount of water mixed with the air is such that were it all precipitated at one thine, it would produce water to the depth of 5½ finches on the earth's surface; and this is so distributed that 4½ grains in weight are in a cubic foot of air. The degree of humidity is the least in hie year, being 78; and it would r

60° 1; its average daily range is 16° 5. The average amount of water mixed with the air is such, that if all were precipitated, it would produce water to the depth tho air is such, that if all were precipitated, it would produce water lo the depth of more than 6 incbes; this water is so, spread that a quantity equal in weight to six grains, is in a cubic foot of air. The degree of humidity is \$2, and the air would require 1½ grain nearly additional water to each cubic foot to saturate it. The weight of the dry air is such as to balmice a column of mercury 29 inches 336 in height; and the weight of a cubic foot of air, under the average heat, humidity, and pressure, is 525 grains. The average amount of rain which falls this month is three inches, and the sky on the average is covered by clouds 69 parts but of a hundred.

out of a hundred.

AUGUST.—In this month the temperature arrives at its maximum, and also the largest quantity of vapour is suspended in the air. Its average, temperature is 613° nearly, and the average daily range of the readings of a thermometer Is 173°. The average amount of water mixed with the air is such that if all were precipitated, it would cover the earth's surface to the depth of 64 inches; and this quantity is so distributed that 5½ grains nearly, in weight, is in a cubic foot of air. The degree of humidity is 84, and it would require additional water to the amount of i grain 1 to a cubic foot to saturate the air. The weight of may air is such as to balance a column of mercury 29 inches 305 in height, and this quantity is less than in any other monts. The weight of a cubic foot of air, under the average heat, humidity, and pressure, is 524 grains, being less than at any other time of the sky are covered by cloud on the average.

September—The average temperature of this month is 57 3° nearly, being 33° less than that of August; this reduction of temperature is more in the day than at night; the average daily range of the thermometer reading is 15°. The average amount of vapour mixed with the air Is such that if it were all precipitated, it would produce water to the depth of six inches, and this is spread so that nearly five grains are in a cubic foot of air. The degree of humidity is 83, and seven-tenths of a grain of water additional, to a cubic foot of air, would saturate it. The average weight of dry air is such as to balance a column of mercury 29.375 inches in height. The average weight of a cubic foot of air, under the average heat, humidity, and pressure, is 530 grains. Rain falls to the amount of 23 inches, and 57 parts out of 100 of the sky are covered by cloud but he average. Some very fine weather usually occurs in this month. At the latter part of the month gales of wind may be expected.

usually occurs in this month. At the latter part of the month gales of wind may be expected.

Ocrobea—The reduction of temperature this month is very great, amounting to no less than 10° nearly; the average temperature of the month is 48° nearly; and the average daily change of temperature is 13° nearly. The average mount of vapour in the air is such that if it were all precipitated at one time, it would produce water to the depth of 4§ luches nearly; and this water is so distributed that there is 3§ grains in a cubic foot of air. The degree of humidity is 90, and the air would be saturated with four-tenths of a grain of water additional to a cubic foot of air. The average weight of the atmosphere of dry air, is such as to balance a column of mercury 29 inches 375 in height; and the weight of a cubic foot of air under the average heat, humidity, and pressure, is 537 grains. Rain falls to the depth of 4 inches, nearly, on the average, and the sky is covered by cloud in the depth of 4 inches, nearly, on the average, and the sky is covered by cloud in the proportion of 66 out of a 100 parts.

proportion of 66 out of a 100 parts.

Novembea—The decline of temperature amounts to 4½° during this month; the average for the month is 43½°; and the average daily range of temperature is 8½°. The average amount of water in the air is such as to produce water to the depth of less than four inches, if all were precipitated; and this is so distributed that the weight of water in a cubic foot of air averages 3½ grains. The degree of humidity is 9½, and the air would be wholly saturated with three-tenths of a grain of water additional to a cubic foot of air. The weight of the dry air is such as to balance a column of increarry 29 inches 373 in height; and the weight of a cubic foot of air under the average leaf, humidity, and pressure. is 542 grains. The averago tall of rain is 3½ inches, and three-fourths of the sky is on an averago covered by clond.

covered by clond.

covered by cloud.

December—The temperature decreases this month 2½°; and its average is 6½° only. The average amount of vapours mixed with the air is such that if it were all precipitated it would produce water to the depth of 3½ inches. The degree of humidity is the same as that in November. The average weight of dry air is greater than in any other month in the year, and it is such as to balance a column of mercury to the height of 29 inches 617. The average weight of a cubic foot of air, under the average heat, humidity, and pressure, is 552 grains, being the same as that in January. The average amount of tain is less than in any other month, being one inch only. The sky is usually three-fourths covered by cloud. There is little variety in the appearances of this and of the preceding month; the general features of both are very similar.

In the preceding account of the weather of each month, the principal observa-tions consist of the average or mean state of the atmosphere with respect to its weight or pressure, its temperature, and its moisture. The readings of the Barometer are given in luches and thousandth parts of an inch, as in January, in

Barometer are given in inches and thousandth parts of an inch, as in January, in the article upon the Barometer, its mean height 29.774 is to be read as 29 inches, and 774 thousandth parts of another inch.

The average state of the atmosphere, is that state in which all disturbing causes are equally balanced, and is that which is most likely to be the prevailing state, at any nuture time, at the same season of the year. And if at any time a great departure from these mean values takes place, it may be considered that such is an unusual state of thungs, and deserves particular attention.

The temperature registered is that of the air in the shade, at the height of four feet above the ground, and protected from the effects of radiation. A thermometer placed on the grass at night, and fully exposed to the sky, is liable to a reading of 32° in every month of the year.

THE BAROMETER.

THERE are many persons possessed of this instrument, and many are in the daily habit of seeing one, and applying its readings to their use, who entirely neglect to study the principle of its action, and thereby lose a vast doal of valuable and

interesting information.

The atmosphore by which we are surrounded is composed of an elastic, invisible filled; a large mass of water in the invisible shape of vapour, and other bodies. These have weight, and it necessarily follows that that portion of the mixture which is nearest to the surface of the Earth, has to bear the pressure of all that which is above it, and therefore it is more compressed in its lowest stratum than convention and in the property of the compression of the stratum than convention and the property of the compression of the stratum than convention and the property of the compression of the

anywhere else.

which is above it, and therefore it is note compressed in its towesis straint that anywhere else.

It is found that a column of air one inch square, and reaching from the earth to the top of the atmosphere, weighs about 14½ ibs. To determine this, common weighing will not do, because of the remarkable property which distinguishes fluids from solids. A solid body, as a mass of iron for instance, presses in one direction only. viz., towards the centre of the earth. A fluid body, on the contrary, presses in every direction—downwards, upwards, and laterally; for instance, if a bladder be filled with compressed air, and an aperture be made in the top or the side, or at the bottom. It follows, therefore, that the pressure which the atmosphere exerts at the Earth's surface, is exerted equally in every direction, upwards, downwards, and laterally. Hence we cannot ascertain its weight by the ordinary means, because the scale of a beam is pressed upwards by the air beneath it in the same degree as it is pressed downwards by that which is above it. But if two hollow spheres be placed together without any mode of fastening them whatever, and the air be extracted from the hollow parts of each, it will be found that the two halves cannot be separated by any force less than 14 times as many pounds as there are square inches in the section of the sphere.

If we take 14½ ibs. as the average pressure of the atmosphere on a square inch of the Earth's surface, any variation in this pressure must arise from a variation

In one or other, or in all the elements of which the atmosphere is composed. It is to these variations that the different readings of a barometer are to be attributed. Maoy of them depend upon the variations of heat, an increase of which causes the aërial particles to expand and consequently to ascend and to flow off laterally above, over those places where the temperature is less and the air diminishing in volume. Hence the statical pressure of the atmosphere ought to diminish as the heat increases, but as the temperature increases the amount of evaporation also increases; and, therefore, the mass of water mixed with the air is augmented, and this would cause the pressure to be increased. The reading of the barometer which represents the height of the mercurial column caused by the joint pressure. and this would cause the pressure to be increased. The reading of the barometer which represents the height of the mercurial column caused by the joint pressure of dry air and vapour, would be increased or diminished according as one or other of these causes preponderated. The knowledge of the amount of the change in the readings of a barometer, which is to be attributed to each of these causes, is highly important; in fact, without them very little prospectively can be known of the weather. The connexion thus existing between the atmosphere of air and that of steam, would naturally lead us to the description and use of the dry and wet bulb thermometer, by the use of which the amount of the latter is determined; this, however, has recently been done in a pamphlet published by Mr. Glaisher, accompanied by extensive tables to be used with these observations. We, the efore, pass on to say a few words on the principle of the wheel-barometer.

wheel-barometer.

In the common wheel barometer, the tube is turned up, as a syphon tube, the larger leg being closed and the shorter leg being open. The atmosphere presses on the mercurial surface in the shorter leg, and a fall or rise therein is accompanied by a rise or fall in the longer leg. On the surface of Mercury in the shorter leg is placed a weight floating upon it; this weight is connected with a string passing over a pulley and balanced by another weight; therefore, as the mercury rises or falls, the float rises or falls with it, and the pulley moves round. To this pulley is attached an index or hand; between the pulley and the hand is placed a circular tace, like a clock-face, which is divided into inches, and marked with certain words.

To this pulley is attached an index of hand; between the pulley and the north splaced a circular tace, like a clock-face, which is divided into inches, and marked with certain words.

It is plain that when the pulley moves round, a revolving motion is communicated to the hand, and the number of inches thus indicated by the hand, shows the rise or fall of the mercurial column.

The dependence which is commonly placed on the wheel barometer is much more than it deserves. The dial about which the index moves is, as before stated, graduated, and at different parts of it the words "Fair," "Set Fair," "R sin," "Much Rain," are engraved. The index points to one or other of these according to the pressure of the atmosphere, and it is always to the same word at the same pressure. It is found that no certain pressure is accompanied with certain weather, or with any certain meteorological phenomena, as rain for instance. The phenomenon of rain depends more on the comparative changes in the pressure in connexion with the leat of the air, and the amount of water then mixed with the bar, and the amount of water then mixed with the bar, than on any fixed barometrical reading. Again, as each stratum of air has bear a greater pressure than that text above it, and as its pressing force on other bodies is dependent on the force with which itself is pressed, the barometer column of mercury decreases in proportion as we ascend at about one-tenth of an inch for every 90 feet; so that, if at the bottom of a hill 500 feet high, the index should point to a certain reading, on the barometer being carried to the top of the hill, it will point more than half an inch less. Neither rain nor any other meteorological phenomenon depends solely on any particular fixed position of the atmosphere.

At the Royal Observatory, at Greenwich, the exact length of the mercurial column is determined every two hours, night and day, except Sundays. From these observations, extending over a period of four years, the following have been found to be the average monthly height:—

Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
In.	In.	In.	7 _n .	In.	In.	ln.	In.	In.	In.	In.	In.
29.774	29.677	29.759	29.806	29.767	29.798	29 777	29 772	29.807	29 660	29 651	29:874

An examination of these numbers show that no certain increase or decrease takes place depending on the period of the year. The mean daily raoge of the readings was found to be as follows:—

Jan.	Feb.	March	April	May	June	July	Ang.	Sept	Oct.	Nov.	Dec.
Jan. In. 0.232	In 0.218	In. 0.207	In. 0.161	In. 0.131	In 0.147	In. 0.148	În- 0.145	In 0 147	In. 0.224	In. 0.220	In. 0 186

From the observations of the dry and wet bulb thermometers taken simultaneously with the above, it is found that the amount of water in the atmosphere each month was such as to balance a column of mercury of the following height:—

										22	13 ab 1
Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Jan. In. 0.222	In. 0.222	In. 0.257	In. 0.284	In. 0 341	In. 0.407	0.441	In. 0.467	In. 0.432	In. 0 314	In. 0.278	In0.257

The increase and decrease of the amount of water, with the increase and de-

The increase and decrease of the amount of water, with the temperature, is here manifest.

By taking these latter numbers from the average mean height of the barometer, the pressure of the atmosphere of dry air will be shown, and it will be found that it diminishes as the heat increases.

MAGNETIC DECLINATION OR VARIATION OF THE COMPASS.

In the Almanack of last Year, we gave the average Monthly position of the Magnetic Needle, with respect to the Astronomical Meridian for the years 1841, 1842, and 1843; within the last year, the volume of the Greenwich Magnetical and Meteorological Observations for the year 1844 has been published, from which we learn that the following were the monthly values of the Westerly Declination, deduced from the Two-hourly Observations in the year 1844:—

January			23°	19'	22"	July		 23°	187	49"
February	••		23	18	43	August		 23	13	25
March	••	• • •	23	18	42	September	• •	 23	13	6
April	• •	••	23	18	42	October		 23	12	52
May	••	• •	23	19	23	November		 23	11	50
June	• •		23	19	8	December		 22	59	41

And that the mean Westerly Declination for the year was 23° 15′ 19″, being 3′ 36″ larger than that deduced from the observations in the preceding year. The Declination of the Magnet—or, in other words, its deviation from the Astronomical Meridian—was explained in last year's Almanack, and also the Magnet's general position, upon a circuit of the Earth passing through Greenwich, was also there explained. In general, if we take the circuit of the Earth under any parallel of latitude, we shall find a place where the marked end of the Magnet points towards the north, or where the Magnetic and Astronomical Meridians are coincident; the deviation of the Magnet at places situated on one side of this line

ecomes westerly, and increases till it arrives at its greatest values, then deviates

becomes westerly, and increases till it arrives at its greatest values, then deviates till it is nothing again.

The amount of the declination is very variable; it is influenced by change of latitude and longitude, but does not follow their laws; indeed it is so very irregular that nothing but actual observation avails for the construction of tables showing its value at different places. It may readily be inferred that the amount of information required for such purposes is immense. Upon this important investigation philosophers in all parts of the world are now engaged. If we start from the Equator, we shall find that the difference between the greatest Eastern and createst Wastern Declination increases as we convend the price of the Eastern.

from the Equator, we shall find that the difference between the greatest Eastern and greatest Western Declination increases as we approach the poles of the Earth. In Greenland, the West declination is so great, that the marked end of the Mignet points nearly to the West, and Parry found a point in the West of Greenland where the marked end, or North end, actually pointed to the South. If we suspend a magnetized bar by its centre of gravity, so as to take from it the action of gravity, it will settle in the Magnetic Meridian, but that extremity of it which is directed towards the north will immediately point downwards, or, as it is called Dip, forming an angle with the horizon, which, at Greenwich, is about 69. This angle is called Magnetic Inclination or Dip.

The following are the mean Quarterly values of this element as observed at the Royal Observatory, Greenwich, in the years 1843 and 1844.

MEAN QUARTERLY MAGNETIC DIP.

Months forming the Quarterly		At 91	a. A. M.			At 3b	P.M.	
Period.	18	43.	19	44.	18	13.	18	44.
January, February, March	68	59	68	59	69	0	68	59
April, May, June	69	Ð	69	0	69	l	69	1
July, August, September	69	1	69	2	69	2	69	- 1
October, November, December	69	0	68	58	69	1	68	57

And the yearly mean for the year 1843 at 9 A.M. was 69°

And the yearly mean for the year 1844 at 9 A.M. was 69 1

And the yearly mean for the year 1844 at 9 A.M. was 69 0

It would seem from these values that the value of the Dip was nearly the same during these two years; it is probable that its maximum value for this locality was attained at this time, and that from this time forward it will begin to decrease. decrease.

locarity was attained at this time, and that from this time forward it will begin to decrease.

These magnetic values of the Dip and Declination at Greenwich are not always the same. At every different place they undergo secular, annual, monthly, daily, and irregular changes.

As the Dip presents differences in different places, it may be interesting to trace some of its variatious. Suppose we set out from Greenwich towards the south, in proportion as we advance, the magnet becomes more and more horizontal, or the Dip decreases, till, in the neighbourhood of the Equator, it will be parallel to the horizon, or the Dip is nothing. On passing into the southern hemisphere, the south pole of the needle dips downwards, and the north pole (or that which in the northern hemisphere dips downwards, will be pointed upwards, and the more so as we move more south. Starting from Greenwich and proceeding northwards the contrary would take place; the north end would point more directly downwards. Thus it will be seen that in one hemisphere the north end of the needle dips downwards, and in the other hemisphere the south end of the needle dips downwards, the seen that in one hemisphere the north end of the needle dips downwards. These two hemispheres are separated by a line, upon all points of which the magnet is horizontal, or there is no Dip. This line, which cuts the terrestrial Equator at different points, is called the Magnetic Equator.

THE PLANET NEPTUNE.

THE PLANET NEPTUNE.

As our Almanack last year was just printed, we heard of the planet beyond Uranus, and we then gave an abstract of all we knew of this new body of the Solar System, which had been discovered by means depending on Theoretical Astronomy, and confirming, in a very remarkable manner, the theory of universal gravitation. A very short time after this Professor Challis, the Direct ror the Cambridge Observatory, published a statement describing the course of observations which had been carried on at that Observatory, with the view of discovering this planet, founded on the calculations of Mr. Adams.

Professor Challis stafed that Mr. Adams, Fellow of St. John's College, showed him a memoranda made in the year 1841, recording his infention of attempting to solve this problem as soon as he had taken his B. A. degree. Accordingly, after graduating in 1843, he obtained an approximate solution, and afterwards pursued the subject to that extent as actually to place in the hands of the Astronomer Royal, and of Professor Challis, the elements of the then unknown planet, before any elements of this planet had been obtained, or at least published by M. Le Verrier.

Le Verrier.

On July 29th, 1847, Professar Challis commenced observing, and by October 1st, he had then registered 3,150 positions of stars. On this day he heard that Dr. Galle had discovered the planet at Berlin, on September 23rd. It afterwards appeared that Professor Challis himself had observed the planet on August 4th, and again on August 12th.

Professor Challis adds that it was impossible that any one could have comprehended the problem more fully than Mr. Adams did; "that he carefully considered all that was necessary for its exact solution, and that he had a firm conviction, from the results of his calculations, that a planet was to be found."

Whatever honour is, therefore, due to M. Le Verrier, and it is certainly great, equal honour and praise are due to Mr. Adams. The former geutloman has had some rewards for his labours; we believe that the latter gentleman's honours are yet to come.

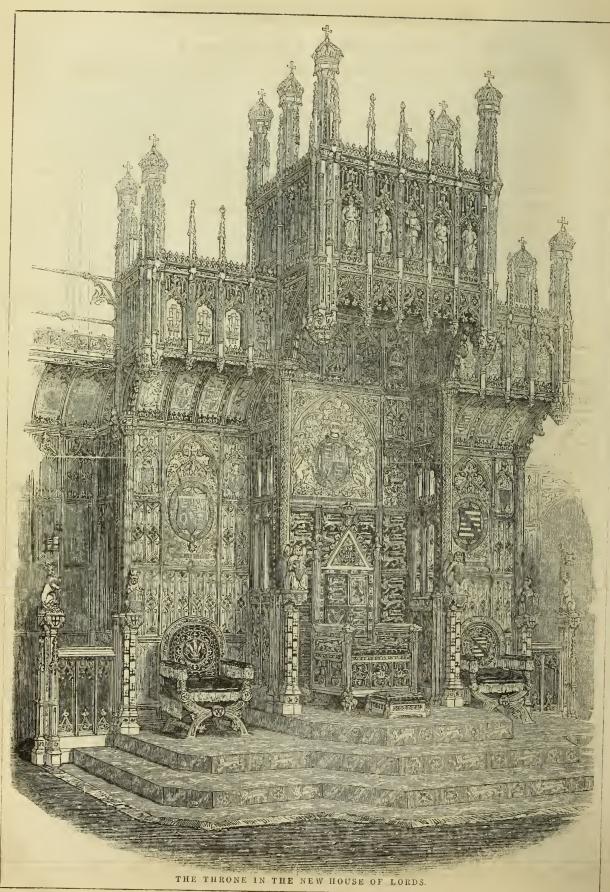
yet to come.

In a subsequent paper by Professor Challis, dated 1847, March 22, he states that Mr. Adams has calculated the elements from the observed places of the planet, and which he gives as follows:—
Heliocentric longitude of the planet referred to the Mean ° ' "

326 41 12 3 36 5 52 30 34 4 1 4 44 310 3 44 0 Heliocentric lonestude of the planet reserved to Equinox of 1847
Heliocentric motion in longitude in 100 days
Heliocentric Latitude South
Change of Heliocentric Latitude in 100 days
Longitude of the Descending Node Distance of the planet from the Sun .. 30 00 167 years

Period

The attempt to fix the name of the discoverer upon new planets has been unsuccessful in every instance. The planet discovered by Herschel is called Urannis; Piazzl gave to Ceres the name "Ferdhandea," in honour of the King of Naules; yet, Ceres is the name by which it is known. Harding Olbers, Hencke, and Hind, all discoverers of planets, followed the long established custom of selecting names from the Heathen Divinities. Immediately after the planet beyond Uranus was discovered, M. Le Verrier, in letters addressed to several persons, said, the "Board of Longitude" has decided in favour of "Neptune," with the sign of the trident. And this name, "Neptune," is the one generally adopted.



THE NEW PARLIAMENT.

CONTAINING A SUMMARY, AND ALPHABETICAL LISTS OF THE MEMBERS OF BOTH HOUSES.

SUMMARY OF THE MEMBERS.

				LORDS	S.				garwaya.
Peers of the	Bloo	d Roy	al				••	2	COMMONS.
Dukes							• •	20	England—County Members 1437
Marquises								20	Isle of Wight
Earls	• •			• •				116	Universities 4 469
Viscounts	••			• •			• •	22	Cities, Boroughs, and Cinque Ports 321
Barons	• •	••	••	••	••	• •	• •	200	Wales—County and Borough Members 29
								380	Scotland-County, City, and Borough Members 53
Archbishops	3	• •		••	• •			2	Ireland—County Members 642
Bisbops	• •			••	**			24	Universities 2 } 105
Scotch Repr				• • •	**	• •	• •	16	Cities and Boroughs 39 3
Irish Repres	sentat	ive Pe	ers	••	• •	• •	• •	28	_
								_	656
								450	

MEMBERS OF THE HOUSE OF LORDS.

Those marked l have supported Lord John John Russell's Government; and those c have opposed the measures of that Λ dministration. Aaabeviations.—K. G. signifies Knight of the Garter, G. C. B. Knight Grand Cross of the Bath, K. T. Knight of the Thistie, K. P. Knight of St. Patrick, G. C. H. Knight of the Guelphs of Hanover, P. C. Privy Councillor, Sco. Rep. Scotch Representative Peer, Ir. Rep. Irish Representative Peer, cr. created.

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Those marked I have supported Lord John John Russell's Governme Aaareviation.—K. G. similes Knight of the Garter, G. C. B. Knight Grand Cross of Guelphs of Hanour, P. C. Privy Councillor, Soc. Rep. Scotch Rep. Abereorn (24 Marq of), Jos Hamilton, K. G., P. C.—er 1730

Abereorn (24 Marq of), Jos Hamilton, K. G., P. C.—er 1730

Aberdon (4th Earl of), Goo Hamilton Gordon, K.T., P. C., F.R.S.—er 1682

Abergavon, (4th Earl of), Boutsus Bertis, D.C.L.—er 1682

Abergavon, (4th Earl of), Boutsus Bertis, D.C.L.—er 1682

Aberdon (5th Earl of), Boutsus Bertis, D.C.L.—er 1682

Acheson (1st Bar) Archibald Acheson—er 1873

Aleksel Marq of), Arch Kennely—er 1831

Aleksel Alam (5), Aleksel Marq of), Chan Brucos Brudenell-Bruco, K.T.—er 1821

Alias (2d Barq), Wm Arden—er 1801, P.C., G.C.H., D.C.L.—er 1826

Alam (2d Barq), Wm Arden—er 1801, P.C., G.C.H., D.C.L.—er 1826

Alam (2d Barq), Wm Arden—er 1801, P.C., G.C.H., D.C.L.—er 1815

Anniers (1st Marq of), Hen Wm Pagel, K.G., G.G.B., D.C.L.—er 1815

Arundel of Wardour (1th Barq), Hen Benedict Arundell—1

Arundel of Wardour (1th Barq), Hen Benedict Arundell—1

Arundel of Wardour (1th Barq), Hen Benedict Arundell—1

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Barq (1th 
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the Bath, K., T. Knight of the Thistiel, K. P. Knight of St. Patrick, G. C. H. Knight of the epresentative Peer, Ir. Rep. Irish Representative Peer, cr. created.

c Churchill (2d Bar.), Fran Goo Spencer—cr 1815
c Clancarity (3d Earl of), Wm Thos Lo Peer Treuch—cr 1803
l Clanricarde (1st Marq of), Ulick John de Burgh, K.P., P.C.—cr 1825
c Clanwilliam (3d Earl of), Rich Meade—cr 1776
c Clare (2d Earl of), John Fitz-Gibbon, K.P., P.C.—cr 1795
l Clarondon (4th Earl of), Goo Wm Fred Villiers, G.C.B., P.C.—cr 1776
c Cleveland (2d Duke of), Hen Vane, K.G.—cr 1833
Clifiden (4th Visct), Hen Agar-Ellis—cr 1781
l Clifidon of Chudleigh (8h Bar), Hugh Chas Clifford—cr 1672
c Clintien (1sh Bar), Chas Rodolph Treftusis—cr 1293
c Clonearry (2d Bar), Valentine Browne Lawless—cr 1789
l Collorer (1sh Bar), Nicholas Wm Ridley Colloren—cr 1839
c Colchester (2d Bar), Valentine Browne Lawless—cr 1789
l Collorer (1st Bar), Nicholas Wm Ridley Colloren—cr 1839
c Colchester (2d Bar), Uslentine Browne Lawless—cr 1789
l Coungleton (2d Baron), John Vesey Parnell—cr 1811
l Conyngham (2d Marq of), Fran Nath Conyngham, K.P., G.C.H., P.C.—cr 1825
l Congleton (2d Baron), John Vesey Parnell—cr 1811
l Conyngham (2d Marq of), Fran Nath Conyngham, K.P., G.C.H., P.C.—cr 1816
c Cork, Cloyue, and Ross (Bp of), Samuel Kylo, D.D.
l Cork and Orrery (3th Earl of), Edmund Boyle—ro 1820
c Corwey (1st Bar), How Melesley, G.C.B., P.C.—cr 1836
c Courtown (4th Earl of), Jas Thos Stopford—cr 1762
c Conwell (1st Bar) How Melesley, G.C.B., P.C.—cr 1828
l Courtown (4th Earl of), Jas Thos Stopford—cr 1762
c Cowley (1st Bar), How Melesley, G.C.B., P.C.—cr 1828
l Crawen (2d Barl), Wm Craven—cr 1801
l Crew (3d Bar), Hungerford Crowe—cr 1806
c Crofton (1st Bar 1 Rep), Edw Crofton—er 1879
l Darce (19th Bary, Thos Brand—cr 1807
l De Freyn (1st Bar), Albon Philip Chas Sidney, D.C.L., P.C.—cr 1761
c De-la-Ward (1st Dark), Mes Philip Chas Sidney, D.C. L., P.C.—cr 1836
c De Tolley (1st Bar), Wm Frucies Spencer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             c Downes (20 Bar, 17 Acp), Upsees Burga, R. O.B.—v. 1622

c Downes (20 Bar, 17 Acp), Upsees Burga, R. O.B.—v. 1622

l Dubie (2d Bar, 17 Acp), Hen Francis Seymour Moore—er 1791

Dubin (Archbp of), Rich Whately, D.D.

Ducis (2d Earl of), Hen Geo Fras Reynolds-Moreton—er 1837

Dunalley (2d Bar, 17 Rep), Hen Prittle—er 1800

Dunfamile (1st Bar, 15, Bar Abereromby, P.C.—er 1839

Dunfaworn (3d Bar, 17 Acp), Hen Prittle—er 1800

Dunfam (1st Bar, 15, Bar Abereromby, P.C.—er 1839

Dunfam (1st Bar, 15, Bar Abereromby, P.C.—er 1830

Dunfam (2d Earl of), Hen Howard—er 1837

E glinton and Winton (1st Barl of), Arch Wm Montgomerie—er 1807

E glinton and Winton (1st Barl of), Arch Wm Montgomerie—er 1807

E glinton and Winton (1st Barl of), Arch Wm Montgomerie—er 1807

E glinton (2d Earl of), John Scott, D.C.L.—er 1821

E llenborough (1st Earl of), Edw Law, G.C.B., P.C.—er 1816

E llenborough (1st Earl of), Francis Egerton, P.C.—er 1816

E lly (Marq of), John Hen Loftus—er 1800

I ly (Bp of), Thos Turton, D.D.

E miniskillo (3d Earl of), Wm Willoughby Cole—er 1789

Ernel (3d Earl of, 17 Rep), John Crichton—er 1798

I ernsikillo (3d Earl of), Wm Willoughby Cole—er 1789

Ernel (2d Bar), David Montagu Erskine—er 1806

E sese (5st Earl of), Arthur Algernon Capel—er 1661

E xoter (2d Marq of), Brownlow Cecil, K.G., D.C.L., P.C.—r 1801

E xeter (19 Morth Earl of), Geo Hen Boecawen—er 1821

F Falkland (9th Viset), Ledw Fellew—er 1816

F Farlham (7th Bar Ir Rep), Hen Maxwell—er 1756
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Ferrers (9th Eart), Washington Sawallis shirley—cr 1711

Feversham (3t Bar), Wan Duncombe—cr 1256

Firstall with Eard (7), Arthar 18-2 Plaukott, R.P.—cr 1639

Firstall with Eard (7), Arthar 18-2 Plaukott, R.P.—cr 1639

Firstall with Eard (7), Arthar 18-2 Plaukott, R.P.—cr 1639

Firstall with Eard (7), Arthar 18-2 Plaukott, R.P.—cr 1639

Folory this Party (19-2)

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Folory the Company (19-2)

Gainstorough (18-12-17)

Gainstorough (
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ON ALMANACK FOR 1848.

J Paterborough (Bp of), Geo Davys, D.D.
Pater (Hill Bur), Will hear Fran Furio, Inc. 2. Ac. 1958
J Pater (Hill Bur), Will hear Fran Furio, Inc. 2. Ac. 1958
J Pater (Hill Bur), Will hear Fran Furio, Inc. 2. Ac. 1957
J Politimon (Har), Geo Will Rubh France—er 1731
Profine (Bh. Earl A), Geo Will Rubh France—er 1731
J Purior (Bh. Earl A), Geo Will Rubh France—er 1731
Profine (Bh. Earl A), Geo Will Rubh Cavondiah Scott-Benuinck, D.C.L., P.C.—er 1716
Portiand (19th Dulse of), Will Bur Cavondiah Scott-Benuinck, D.C.L., P.C.—er 1716
Politimon (19th Earl), John Foulett—er 1796
Learl (19th Carl Bur), John Thou France—er 1831
Profine (19th Earl A), John Foulett—er 1796
Radnor (3d Earl A), John Thou France—er 1831
Radnor (3d Earl A), John Thou Freeman-Hifford—er 1902
Radnor (3d Earl A), John Thou Freeman-Hifford—er 1902
Radnor (3d Earl A), John Thou Freeman-Hifford—er 1902
Redesland (3d Bar), John Thou Freeman-Hifford—er 1903
Redesland (3d Bar), John Thou Durly (19th Profine)
Redesland (3d Bar), John Thou Durly (19th Profine)
Redesland (3d Bar), John Thou Durly (19th Profine)
Redesland (3d Bar), John Thou Durly (19th Profine)
Redesland (3d Bar), John Thou Durly (19th Profine)
Redesland (3d Bar), John Thou Pricarous, R. T., T.—er 1707
Redesland (3d Bar), John Thou Pricarous, R. T., T.—er 1707
Redesland (3d Bar), John Thou Pricarous, R. T., T.—er 1707
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Redesland (3d Bar), John Thou Pricarous, R. T., T.—er 1707
Redesland (3d Bar), John Thou Pricarous, R. T., T.—er 1707
Redesland (3d Bar), John Thou Pricarous, R. T., T.—er 1707
Redesland (3d Bar), Act and the State Redesland (3d Bar), Act and the State Redesland (3
                                                                                                                                                                                                                                                                                                                      SCOTTISH REPRESENTATIVE PEERS.
            SCOTTISH REPRESENTATIVE PEERS.

c Calville (10th Bar, 8co Rep), John Colville—er 1609

Elphinstone (18th Bar 8co Rep), John Elphinstone
(18th Bar 8co Rep), John Elphinstone
(18th Bar 8co Rep), John Elphinstone
(18th Bar 8co Rep), John Elphinstone
(18th Bar 8co Rep), John Elphinstone
(18th Bar 8co Rep), Gohn Elphinstone
(18th Earl of, 8co Rep), General Alex Remey-Home—er 1605

Laven and Melville (8th Earl of, 8co Rep), David Leslie Melville—er 1600

Morton (18th Earl of, 8co Rep), Geo Sholto Douglax—cr 1198

c Orkney (24 Eerl of, 8co Rep), Hop Sans Helphins—scott—er 1609

Rollo (9th Bar, 8co Rep), Hop Frans Helphins—scott—er 1609

Rollo (9th Bar 8co Rep), Hop Frans Helphins—scott—er 1609

Rollo (9th Bar 8co Rep), Hop Frans Helphins—scott—er 1701

c Saltoun (16th Bar, 8co Rep), Alex Geo Fraser, K.C.B.—er 1445

c Selkirk (8th Earl of, 8co Rep), Bar Sto Rep)

c Strathallan (6th Vict, 8co Rep), Bar Andw John Laur Chas Drummond—er 1686

c Tweeddale (8th Marq of, 8co Rep), Geo Hay, K.T., C B.—er 1694
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MEMBERS OF THE HOUSE OF COMMONS.

Anereviations .- I means Liberal, c Conservative, p Protectionist, and s Son.

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Conservative, p Protectionist, and s Son.

| C Cardwell, Edw. S of John Cardwell, Eeq. late of Liverpool, merchant. Liverpool C Carew, Wm Hen Pole. Deputy-Lieut of Cornwall. 2d surviving s of the late Right Hon Reginald Pole Carew. Cornwall, E Carter, John Bonham. A magistrate for Hants. S of the late John Bonham Carter, Esq. p Castlereagh, Rt Hon Viet. Eid s of the Mary of Londonderry. Down 60 Cawendish, Hon Chas Compton. Youngest e of the late, and uncle of the present Earl of Caulfield, Hon Hon. 2d s of the 1st Earl of Charlemont. Armondo Carteria. Buckingham. Bucks. Carteria. Buckingham. Bucks. Peterborough. Cavendish, Hon Chas Compton Cavendish, Mer. for Bucks. Peterborough. Cavendish, Wm Geo. Only s of the Hon Wm Cavendish. Derbyshire. N Cavendish, Wm Geo. Only s of the Hon Chas Compton Cavendish, Mr. for Bucks. Peterborough. Mary of Charlemon. Mary of Charlemon. Bucks. Peterborough. Mary of Charlemon. Mary of Charlemon. Buckingham bor Carteria, Hon Francis Wennyas. Eid s of Lord Eiden. Haddingtonshire C Chiebester, Lord John Ladford. Sof 2d Mary of Donegal. Belfast. Childers, Lord John Ladford. Sof 2d Mary of Donegal. Belfast. Childers, Lord John Wallbanke. A magistrate for the West Rid of Yorkshire. Eld s of the late Col. John Wallbanke Childers, of Cantley, Yorkshire. Madion. John Wallbanke Childers, of Cantley, Torkshire. Madion. John Wallbanke Childers, of Cantley, Yorkshire. Madion. John Wallbanke Childers, of Cantley, Torkshire. Madion. John Hadion.                          Abdy, Thomas Neville. S of the late Capt Anthony Abdy, R.N. Lyme Regis p Acland, Sir Thos Dyke, Bart, D.C.L., Devon, N p Acton, Willem. Eld s of the late Thee Acton, Esq. of West Acton. Wicklow 1 Adair, High Edw. 24 of Sir Robt Shafto Adair, Bart. I psevich 1 Adair, Riph Edw. 24 of Sir Robt Shafto Adair, Bart. Jesvich 1 Adair, Riph Edw. 24 of Sir Robt Shafto Adair, Bart. Cumbridge bor p Adare, Viste. Eld e of the Earl of Dunraven. Glamorganshire p Adderley, Chas Bowyer. Steffordshire N Glamorganshire p Adderley, Chas Bowyer. Steffordshire N Glamorganshire p Adderley, Chas Bowyer. Steffordshire N Glamorganshire, Steffordshire p Alexander, Anth. So of Joseph Alcock, Esq. of Rochampton, Surrey. Surrey, E p Alexander, Nath. So few Robt Alexander. Antrim p Alford, Viset. Eld a of Earl Brownlow. Edfordshire 1 Anson, Viset. Eld a of the Earl of Lichfield. Lichfield 1 Ansiey, Thos Chisholm. 24 of Thos Anstey, Esq. Youghd 1 Ansiey, Thos Chisholm. 24 of Thos Anstey, Esq. Youghd 1 Ansiey, Thos Chisholm. 24 of Thos Anstey, Esq. Youghd 1 Anstey, Thos Chisholm. 24 of Thos Anstey, Esq. Youghd 1 Anstey, Thos Chisholm. 24 of Thos Anstey, Esq. Youghd 1 Anstey, Thos Chisholm. 24 of Thos Anstey, Esq. Youghd 2 Arwinght, Geo. So file ha Arwinght, Eq. of Wilsaley, Derbyshire. Leominster 1 Armstrong, Sir Andw, Bart, S of the late E Armetrong, of Gallen. King's co Larmdel and Surrey, Earl of. Eld e of the Dake of Nortolk. Arundel c Ashley, Lord. D.C.L. Eld e of the Earl of Shaftesbury. Bath Cattwood, John. Sof Jas Attwood, Esq. Harwich. Bagge, Wm. Eld e of the late The Philip Begge, Esq, of Stradsett Hall, Norfolk, a descendent from a Swedish family. Norfolk, W Begot, Hon Wm. Eld e of the Bagn Bagney, John. Eld so of the late John Bagshaw, Esq. a hanker of Coventry. Harwich Bagshaw, John. Eld so of the late Bohn Bagshaw, Esq. a hanker of Coventry. Harwich Edwardshire, Brecknockshire Brecknockshire Begoth, Jun. So of the Member for Brecknockshire. Brecknockshire Begoth, Jun. So of the Member for Brecknockshire. Brecknockshire Begoth, Ju
                     Ballan, Hat Talbot. Eld e of Edw Baines, Esq. a barrister-at-law, formerly M.P. for Leeds.

Baldock, Edw Holmes. First returned for Shrewsbury in 1847. Shrewsbury of Baldwin, Chas Barry. Eld e of Col Baldwin. Totness

Bankes, Geo. 24 s of Hen Bankes, Esq., Cursitor Baron of the Exchequer. Dorsetshire

Barclay, Dav. Sof the late Robt Barclay, Esq. of Bury Hill. Sunderland

Barling, Hen Orne Holmes. Eld e of Sir Talaring, Bart. Portsmouth

Barling, Hen Bingham. Beld e of Sir Thes Barling, Bart. Marlborough

Barling, Hen Bingham. Nephew of Sir Thos Barling, Bart. Marlborough

Barling, Hen Bingham. Nephew of Sir Thos Barling, Bart. Marlborough

Barling, Hon. 24 s of Sir Thos Barling, Bart. Muntingdon

Barling, Hen Bingham. Nephew of Sir Thos Barling, Bart. Marlborough

Barling, Hen Bingham. Nephew of Sir Thos Barling, Bart. Marlborough

Barling, Hen Bingham. Nephew of Sir Thos Barling, Bart. Muntingdon

Barling, Hen Bingham. Nephew of Sir Thos Barling, Bart. Marlborough

Barling, Hen Bingham. Nephew of Sir Thos Barling, Bart. Muntingdon

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Barling, Hen Bingham. Nephew of Sir Thos Barling, Bart. Muntingdon

Barling, Hen Bingham. Nephew of Sir Thos Barling, Bart. Muntingdon

Batteson, Hones, A Dept of Ireland. Berkeling, Bart. Barling, Bart. Barling, Bart. Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Barling, Ba
Dashwood, Geo Han. Eld so fir John Deshwood King, Bart. Wycombe.
Dashwood, Geo Han. Eld so fir John Deshwood King, Bart. Wycombe.
Davie, Sir Hen Roht Ferguson, Bart. S of the late Robt Ferguson, Esq, M.P. Haddington dist
Davies, David Arthur Saunders. S of D Davies, Eeq. M.D. Carmarthenshire
Dawson, Hon Thos Vesey. S of 2d Lord Greenorne. Monaghon
Deedes, Wm. Eld so f the late Wim Deseder. Monaghon
Deedes, Wm. Eld so f the late Wim Deseder. Monaghon
Deedes, John Feter. A distort relation of the Member for Surrey Malton.
Deering, John Feter. A distort relation of the Member for Surrey Malton.
Deering, John Feter. A distort relation of the Member for Surrey Malton.
Deering, John Foles. Wexford for
Devereux, John Thos. Wexford for
Devereux, John Thos. Wexford for
Devereux, John Foles. Wexford for
Devereux, John Foles. Wexford for
Devereux, John Foles. Wexford for
Divert, Edw. Exter.
Divon, John. Eld e of the late Peter Dixon, Esq, of Whitehaven. Carlisle
Dodd, Geo, F.S.A. S of the late Geo Dodd, Esq, of Montegu-square. Maidstone
Dougles, Sir Chas Eurwiche, C.M.G. Warwich
Dorax, John Marq of. Eld s of the Duke of Wellington. Norwich
Dorax, John Ward and Sache Malton of Deverous Property. Dumfriesshire
Dorax, John State Warden and Sache Malton of Deverous Property. Dumfriesshire
Drax, John State Warden and Sache Hand of Queensberry. Dumfriesshire
Drax John State Warden and Sache Hand of Queensberry. Dumfriesshire
Drax Hand Sir John Thos Buller, Bart. Major of the let Devon Yeomanry. S of the late
Dumcand, Hen Home. S of the late Geo Home Drummond, Esq. Perthshire
Duncani Sir John Thos Buller, Bart. Major of the let Devon Yeomanry. S of the late
Duncan, Geo. A retired merchant. Dundee
Duncan, Geo. A retired merchant. Dundee
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Duncan, Geo. A retired merchant. Dundee
Duncan, Geo. A retired merchant. Dundee
Duncan, Geo. A ret
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ON ALMANACK FOR 1848.

I Howard, Hen Jas Kenneth. Yenngest s of the Earl of Suffelk and Berks. Malmesbury.

p Hudson, Geo. Lord Mayor of the city of York. Sunderland

annaryon dist.

Eld S. Eld S. Eld S. Eld S. Sunderland

annaryon dist.

Humb, Joseph, F.R.S., F.R.A.S. Deputy Lieut of the 50-8 Middlesex. Montrose dist

Humphory, John. A wharfinger and merchant in the Borough. Southwark

Hutt, Wm. Gateshead

I Humphory, John. A wharfinger and merchant in the Borough. Southwark

Hutt, Wm. Gateshead

I high six of the Mary of Lothian. Staffordshire, S

I lagin, Sir Robt Harry, Bart, D.C.L. A barister. Oxford University

c Iroland, Thos Jas. Only son of Thos Ireland, Esq. Bewdley

J Jackson, Wm. A Cheshire magistrate. S of the late Peter Jackson, Esq. of Warrington,

Lancashire, surgeon. Neucosité-inder-Lyme

J Jervis, Sir John. Ser Sir John Jervis, the Attorney-General. Horsham

Lordon, Wist. Elds of the Earl of Roden. Lymn Regis

Johnstone, Sir John Vanden Bempde, Bart. Scarborough

p Jollitic, Sir Wm Gee Hylton, Bart. S of the Rev Wm Jolliffe. Petersfield

p Jones, Theobald. S of the Rev Jas Jones, Rector of Uruey, Strabaue. Londonderry oc

t Jones, Sir Willoughby, Bart. 2d s of Sir John Thos Jones, K.G.B. Cheltenham

I Keating, Robt. A Repealer. A member of the "Old Irlenand party." Waterford oc

E Koogh, Wm. Eld s of Wm Keegh, Esq. Allow

E Kengh, Wm. Eld s of Wm Keegh, Esq. Allow

E Kerlish, Sir Edw, Bart, G.C.H., K.C.B. A Lieut-ten in the army. Eye

I King, Hon Feter John Locko. 2d sof 7th Lord King. Surrey, E.

E Knight, Fred Winn. Eld s of John Knight, Esq. Worestershire, W

E Knight, Fred Winn. Eld s of John Knight, Esq. Worestershire, W

E Knight, Sir Chas, Bast. Northamptonshire, Sor the Ist Foot Guards. Marlow

I Lancelson, Sir Haw, Bast. & Orthamptonshire, Sor the Ist Foot Guards. Marlow

I Langeson, Jas Haughton. Oxford city

p Lascelles, Hon Edwin. 3d surviving s of the 2d Earl of Harewood. Repon

Lascelles, Hon Edwin. 3d surviving s of the 2d Earl of Harewood. Repon

Lascelles, Hon Edwin. 3d surviv
                        l Euston, Earl of. Eld's of the Duke of Grafton. Thetford
l Evans, John. A barrister: goes the Oxford Circuit. Haverfordwest
l Evans, Sir De Laoy, K.C.B. Sof John Evans, Esq. of Miltown, Ireland. Westmineter
l Evans, Wm. Ed's of Wm Evans, Esq. of Darley. Derbysfire, N
Evans, Wm. Ed's of Wm Evans, Esq. of Darley. Derbysfire, N
I Evant, Wm. Ed's of Wm Evans, Esq. of Darley. Derbysfire, N
I Evant, Wm. A of a merchant and broken of Live so. Darly Sisteman, Esq. of Cork. Cork. oity
Fachbam, Edw Basil. Eld's of the late Edw Farnham, Esq. of Quorndon. Leticester-sire, N
P Earley, Jas. Eld's of Jas Wm Farrer, Esq. of Ingleborough, Yorkshire. Durham, S
P Fellowes, Edw. Sof Wm H Fellowes, Esq. Huntingdonshire
P Fergus, Dhn. Sof — Pergus, Esq. for many years Provest of Kirkaldy. Fifeshire
P Ferguson, Sir Robt Alex, Bart. Lord-Liest of Londonderry. Londonderry city
P Fording, Robt. Sof the late Sir Ronal Pergus. Kirkaldy dist
P Ffolliott, John. Is descended from a common ancestor with the Ffolliots of Worcestershire.

Slipo co.
                        p Ffolliott, John. Is descended from a common ancestor with the Ffolliots of Worcestershire. Slipe of p Filmer, Sir Edm, Bart. S of the late Capt Filmer. Kent, W Fitz-Patrick, John Wilson. Representative of a younger branch of the Fitz-Patricks, Earls of Ossory, whose title is extinct. Queen's co c Fitz-Roy, Hon Hen. S of 2d Bar Southampton. Leuces I Fitz-William, Hon Geo Wentworth. 2d s of 3d Earl Fitz-William. Peterborough p Floyer John. Sof the Roy Wm Floyer, Dorsetskire I Foley, John Hodgetts Hodgetts. 2d s of the late Hon Edw Foley. Worcesterskire, E Forbes, Wm. Stirlingskire
Frordycs, Alex Dingwall. A Commander in the Navy. S of Wm Dingwall Fordyce, Esq. of Techmirry, Abordeenshire. Aberdeen
p Forester, Hon Geo Cecil Weld. Br and heir presumptive to Lord Forester. Wenlock Forster, Matthew. A merchant, shipowner, and underwriter in London. Berwick-on-Tueed
Fortesene, Chichester Samuel. Youngest s of the late Lient-Coi Chichester Fortescue, of
                   Forester, Hon Geo Cecii Weld. Br and neir presumptive to Lord rossest. Prehoc-on-Tweed I Forester, Mathew. A merchant, shipowner, and underwriter in London. Berwick-on-Tweed I Forescee, Chichester Samuel. Youngest s of the late Lient-Col Chichester Fortescue, of Forescee, Chichester Samuel. Youngest s of the late Lient-Col Chichester Fortescue, of Forescee, Hon woln Fin as a the late Rev Fras Fort. Longford Forescee, Hon woln Fin as a the late Rev Fras Fort. Longford Forescee, Hon woln Fin as a the late Rev Fras Fort. Longford Forescee, Hon woln Fin as a the late Rev Fras Fort. Longford Forescee, Hon Well Forescent Forth Forescent, English Revenue Forescent, Hon Well Forescent, Hon Hon Schoel, Hon Hon French, Hon Schoel, Hon Hon French, Hon Fras Miller Glade Henry French, Histataphen. Br of Lord Da Freyne. Roscommon co. Frewen, Chas Hay. 2d s of the late John Frewen Turner, Esq. Sussex, E p Galway, Visct. An Irish Peer. East Retford I Gardner, Rich. Eld s of Robt Gardner, Esq. Leicester P Gaskell Jas Milnes. Only s of the late member for Maldon of that name. Wenlock I Gibson, R. Rich. Eld s of Robt Gardner, Esq. Leicester P Gaskell Jas Milnes. Only s of the late Sir John Gladstone, Bart. Oxford Univ I Glyn, Geo Carr. A banker. 4th s of the late Sir Hich Carr Glyn, Bart. Kendul P Goddard, Amhrose Lethbridge. A magistrate for Wilts. Eld s of Ambrose Goddard, Esq. of Sorthon, Wilts. Cricklade Oston, Esq. Kilderminster Goddard, Esq. of Sorthon, Wilts. Cricklade Oston, Esq. Kilderminster Goddard, Esq. Of Sorthon, Wilts. Cricklade Oston, Esq. Kilderminster Goddard, Esq. Of Gooch, Edw Sherlock. Eld s of Sir T S Gooch, Bart. Sujfolk, P. P. Gordon, Mills. Cricklade December of the Blue. Br of the Earl of Aberdeen. Aberdeenshire P Gord, Will Rich Park. Sorthon Control of the State of Cooch, Edw Sherlock. Eld s of the member for Salop North. Silgo co. P Goring, Chas. Shoreham Goulburn, Rescommon. Only s of the late John Grace, Esq. of Mantna, co Roscommon. Roscommon co. Graham, Rt Hon Sir Jas Robi Geo, Bart. Cousin to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Maldon
ennox, Lord Arthur. 7tb s of the 4th Duke of Richmond. Yarmouth
cannox, Lord Hen Geo Chas Gordon. 2d s of the 5th Duke of Richmond. Chichester
leslie, Chas Powell. S of the late Chas P Leslie, Esq. Monaghan
awis Geo Cornewall. Eld son of the Rt Hon Sir Thos Frankland Lewis, Et, M.P. Here-
serie, Rt Hon Cir. The Series Review of the Rt Hon Sir Thos Frankland Lewis, Et, M.P. Here-
series Rt Hon Cir. The Series Review of the Rt Hon Sir Thos Frankland Lewis, Et, M.P. Here-
series Rt Hon Cir. The Series Review of the Rt Hon Sir Thos Frankland Lewis, Et, M.P. Here-
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2 Lewis, Rt Hon Sir Thos Frankland, Bt. Only s of the late John Lewis, Eaq., of Harpton Court, Radnorshire. Radnor dist
c Lincoln, Earl of. Eld s of the Duke of Newcastle. Falkirk dist.
c Lincoln, Earl of. Eld s of the Th Earl of Balcarres. Wigan
l Littleton, Hon Edw Richard. Eld s of Lord Hatherton. Walsall
l Loch, Jas. F.G. S., F.S. S., and F.Z.S. An English barrister and Scottish Advocate. Eld s of Geo Loch, Esq., of Drylaw, county of Edinburgh. Wick dist
l Locke, Jos. F.R.S. A. civil engheer. Honiton
L Lock, Jos. F.R.S. A. civil engheer. Honiton
L Lock, W. M. Is descended from a family long settled in Lanarkshire. Lanarkshire p Lockhart, Wm. Is descended from a family long settled in Lanarkshire. Lanarkshire p Long, Walter. Eld s of Rich Godolphin Loog, Esq., of Rood Ashton. Witts, N p Lowther, Hen. Eld s of Col the Hon Hen Ceel Lowther. Cumberland, W
l Lowther, Hen. Edd s of Col the Hon Hen Ceel Lowther. Cumberland, W
Lushington, Chas. Youngest sof the late Sir Stepben Lushington, B, of South Hill Park, Berks. Westminster
Lygon, Hon Hen Beauchamp. Br of the Earl of Beauchamp. Worcestershire, W
c M'Clintock, Wm Bunhury, 2d s of John M'Clintock, Esq. of Drumcar, co Louth. Camlow, co
Mac Gregor, John. Eld son of David Mac Gregor, Esq., of Drynke, Ross-shire. Glzesjow
c Mackenzie, Wm Forbes. Eld s of the late Colin Mackenzie, Esq., of Portmore. Peeblesskire
Mackenzie, Wm Atherday, Huel of the Clon Mackenzie, Esq., of Portmore.
c Goulburn, Rt Hon Hen. So f Munbee Goulburn, Esq, of Portland-place. Cambridge Univ (Gower, Hon Edw Fred Leveson. 2d s of the Ist Earl Granville. Dr. Phy (Grace, Oliver Dowell John. A magistrate for Roscommon. Only s of the late John Grace, Esq, of Mantina, co Roscommon. Good Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Santina, Carlies. River of Carlies. River of Santina, Carlies. River of Carlies. River of Santina, Carlies. River of Carlies. River of Santina, Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carlies. River of Carl
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C Mackinnon, Wm Alexandor. Head of the Clan Mackinnon. Lymington

C Macanghton, Sir Edmund Chas Workman, Bt. Elds of the late Sir Forancis Workman Macnaghton, Bt. a Judge of Madras. Antrim

I Macnamara, Wm Nugent. 8 of the late Francis Macnamara, of Doolen. Clare co

C Mc Neill Duncan. 24 of John Me Neill, Esq. of Collonsoy, co Argyll. Argyllskire

I MTaggart, Sir John, Bt. A native of the district, and a London merchant. Wigton dist

I McTavish Chas Carroll. Doclared that "althourh he was an American by birth, he was an

Irishman by descent and at heart." Dundalk

I Magan, Wm Henry. Elds of the late Wm Hen Magan, Esq. of Clonearl. Westmeath.

I Maher, Nicholas. 8 of Thos Maher, Esq., a medical practitioner in the city of Gashel.

Tipperary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              I McTavish Chas Carroll. Declared that "atthough ne was an American by butting to real Irishman by descent and at heart." Dundolls

I Mapan, Wm Henry. Eld s of the late Wm Hen Magan, Esq. of Clonearl. Westmeath. I Maher, Nicholas. S of Thos Maher, Esq. a medical practitioner in the city of Cashel. Tipperary

C Mahon, Lord. Only s of Earl Stanhope. Hertford bor

I Mahon, Jas Patrick O'Gorman, commonly called "The O'Gorman Mahon." Elds and heir of the late Patrick Mahon, commonly called "The O'Gorman Mahon." Elds and heir of the late Patrick Mahon, commonly called "Patricity and Mahon." Elds and heir of the late Patrick Mahon, commonly called "Patricity and Mahon." Elds and heir of the late Patricity and the Patricity and Cambridgeshive Commons. I and Carroll of the late Jamangles. Esq. Guildford C Manners, Lord Geo John. Youngest sof the 5th Duke of Rutland. Leicestershire, N p Manners, Lord Geo John. Youngest sof the 5th Duke of Rutland. Leicestershire, N p Manners, Lord Geo John. Youngest sof the Stanhall, Esq. of Headingley, in the co of York, an extensive linen manufacturer at Leeds and Shrewsbury. Cumberland, E c Martin, Chas Wyksham. A Deputy-Lleut of Hants. S of Fleunes Wyksham. Esq., who assumed for self and issue the name of Martin, oa succeeding to the estates of General Martin, John. Is a member of the firm of Masterman, Poters, Mildred and Co, London, Masterman, John. Is a member of the firm of Masterman, Poters, Mildred and Co, London, Masterman, John. Is a member of the firm of Masterman, Poters, Mildred and Co, London, Masterson, Thos. A Lieut-Coli in the Array. S of Donald Matheson, Esq. of Attadale, Ross-shire. Inverness dist

Matheson, Jas, F.R.S. S of Donald Mathesos, Esq., chiof of that name. Ross and Cromarty Matheson, Thos. A Lieut-Coli in the Array. S of Donald Matheson, Esq. of Attadale, Ross-shire. Inverness dist

Matheson, Thos. A Lieut-Coli in the Array. S of Donald Matheson, Esq. of Attadale, Pameshire. Inverness dist. Martin, Scanhard, Coli Thos Fillipp. Colo of the Earl Filewilliam.
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THE ILLUSTRATED LOND

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t Tollemache, Hom. S Jake he kend followsche. Cheshire, S
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Vane. Lord Harry Geo. 8 of the 1st Duke of Cleveland. Durham, S

THE QUEEN AND ROYAL FAMILY.

THE QUEEN.—VICTORIA, of the United Kingdom of Great Britain and Ireland, Queen, Defender of the Faith, was born May 24th, 1819; aucceeded to the throne, June 20th, 1837, on the death of her uncle, King William IV.; crowned, June 28th, 1838, and married, February 10th, 1840, to his Royal Highness Prince Albert. Her Majesty is the only daughter of his late Royal Highness Edward Duke of Kent, son of King George III.

His Royal Highness Francis Albert Augustus Charles Emannel Busici, Duke of Saxe, Prince of Coburg and Gotha, K.G., Consort of her Majesty, horn August 26th, 1819.

OF SAYE, PRINCE OF COBURG AND GOTHA, K.G., CONSULT HE AUGUST 26th, 1819.

Her Royal Highness Victoria Adelaide Mary Louisa, PRINCESS ROYAL, horn No-

Her Royal Highness Victoria Adelaide Mary Lönisa, Princess Royal, norn November 21st, 1840.

His Royal Highness Alhert Edward, Prince of Wales, born November 9th 1841.

Her Royal Highness Alice Maud, born April 25th, 1843.

His Royal Highness Alfred Ernest Albert, boru August 6th, 1844.

Her Royal Highness Princess Helena Augusta Victoria, horn May 25, 1846.

The Queen Dowagen.—Amelia Adelaide Louisa Theresa, sister to the reigning Duke of Saxe Meiningen, born August 13th, 1792; married July 11th, 1818; crowned September 8th, 1831.

PRINCES AND PRINCESSES.

Ernest Augustus, Duke of Cumerland, in Great Britain, and King of Hanover, uncle to her Majesty, horn June 5th, 1771, married, August 29th, 1815.

OVER, uncle to her Majesty, horn June 5th, 1771, married, August 29th, 1815. Issne, George Frederick.

Adolphus Frederick, DURE of Cambridge, uncle to her Majesty, horn February 24th, 1774; married, May 2nd, 1818, ber Serene Highness Augusta Wilhelmina Louisa, youngest daighter of Frederick, Landgrave of Hesse. Issue, three children. Marx, Auut to her Majesty, horn April 25th, 1776; married July 22nd, 1816, her cousin, the Duke of Gloucester, deceased.

Sofrai, Aunt to her Majesty, horn November 3rd, 1777.

Victoria Mary Louisa, Duchess of Kent, horn August 17th, 1786; married, in 1818, the Duke of Kent (who died January 23rd, 1820); her Majesty'a mother.

Augusta Wihelmina Louisa, Duchess of Cambridge, niece of the Landgrave of Hesse, horn July 25th, 1795; married, in 1818, the Duke of Cambridge, by whom ahe has issue, George William, Augusta Caroline, and Mary Adelaide.

George Frederick Alexander Charles Ernest Augustay, K.G., only child of the King of Hanover, Prince Royal of Hanover, consin to her Majesty; boru May 27th, 1819; married, Fehruary, 1848, Princess Mary of Saxe Alteuberg, and has a son.

has a son

has a son. George Frederick William Charles, K.G., aon of the Duke of Cambridge, cousin to her Majesty, born March 26tb, 1819.

Augusta Caroline Charlotte Elizaheth Mary Sophia Louisa, daughter of the Duke of Cambridge, and consin to her Majesty, horn July 19th, 1822; married June 28th, 1843, Frederick, Heredltary Grand Duke of Mecklenburg Strelltz.

Mary Adelaide Wilhelmina Elizabeth, daughter of the Duke of Cambridge, and cousin to her Majesty, horn November 27th, 1833.

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9		- /	ley, Lord Byron, Earl of Morton, Mar-
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Blistress of the Robes	**	••	The Duchess of Sutherland
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7 1 01	••	
A44	• •	
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.. James H. Monaghan, Esq. Solicitor-General SCOTLAND Lord High Constable The Earl of Errol Viscount Melville Right Hon. A. Rutherfurd Lord Privy Seal

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Chaplains, Rev. J. K. Goldney, Rev. E.

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Deputy Medical Inspector of Hospitals,
Alex. Nisbet, M.D.
Surgeon, James M'Ternan.
Dispensera, John Witmarsh, and Archihald Vair

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SWEDEN AND NORWAY.—Embassy, 66, Mount-street, Berkeley-square, between 9 and 1; delivered following day—fee 5s.

TURKEY.—Embassy, 1, Bryanstone square, between 12 and 3 every day, except Friday and Sunday, gratis.

TUSCANY.—15, Angel-conrt, Throgmorton-street, between 10 and 4, gratis.

CITY OFFICERS.

LORD MAYOR.
Elected September 29th.—Sworn in November 9th.
The Right Honourable John K. Hooper, Vintry, 1840.

William Cubitt, Esq., M.P. | Charles Hill, Esq. UNDER SHERIFFS.

Thos. France, Esq. D. W. Wire, Esq. ALDERMEN.

Thos. France, Esq. D. W. Wire, Esq. ALDERMEN.

THE FOLLOWING HAVE NOT PASSED THE CHAIR.

Wood, Thomas, Esq., Cordwainer; 3, Corbet-court, Gracechurch St. Duke. Sir James, Kt., M.P., Farringdon Withont; Botolph-lane Faracomb, Thomas, Esq., Bassishaw; Griffin's Wharf, Southwark Musgrove, John, Esq., Broad-street; 18, Old Broad-street

Hunter, William, Esq., Cripplegate; 32, Wilson-street, Finsbury Circus.
Challis, Thomas, Esq., Cripplegate; 32, Wilson-street, Finsbury Hughes, Hughes William, Esq., Bread-street; 17, Great Distaff-lane Sidney, Thomas, Esq., M.P., Billingsgate; 8, Ludgate-hill Moon, F. G. Esq., Portsoken; 20, Threadneedle-street

Hunter, Sir. C. S. Bart., Bridge Without; 23, Euston-square. Lucas, M. P., Esq., Tower; 21, Water-lane

Thompson, W. Fsq., M.P., Cheap; Upper Thames-street Key, Sir John, Bart., Langbourn; 3, Abchurch Lane
Lanrie, Sir Peter, Knt., Aldersgate; 7, Park-square, Regent's-park Farebrother, C, Esq., Lime-street; 6, Lancaster-place, Strand Copeland, W. Esq., M.P., Bishopsgate; 37, Lincoln's Inn-fields Kelly, T. Esq., Farringdon Within; 17, Paternoster-now
Wilson, Samuel, Esq., Castle Baynard; 24, St. Paul's Chnrch-yard Marshall, Sir C. Knt., Bridge Within; 43, Rnssell-square

Pirle, Sir John, Bart., Cornhill; Birchin Lane
Humphery, J. Esq., M.P., Aldgate; Hays's Wharf, Southwark, Magnay, Sir William, Bart., Vintry; College-hill
Gibbs, Michael, Esq., Walbrook; 33, Walbrook
Johnson, John, Esq., Dowgate; Milbank
Carroll, Sir George, Candlewick, 34, Cavendish-square When chosen Aldermen. .. 1835 .. 1840 1840 • • 1842 1843 1843 1844 .. 1844 1804 1821 1821 1823 1826 1826 1829 1830 1831 1832 1834 .. 1835 1838 1839 1840

EAST INDIA COMPANY.

Six Directors are elected annually in April, when six go out by rotation. Each Director serves four years. The figure prefixed denotes the number of years each has to serve.

DIRECTORS.

(3) Chairman, Henry St. George Tucker, Esq., 3, Upper Portland-street.
 (2) Deputy Chairman, Lieutenant-General Sir James Law Lushington, G.C.B., 26, Dorset Square.

(2) William Wigram, Esq.

(2) William Wigram, Esq. (1) Sir Robert Campbell, Bart. (3) John Loch, Esq. (3) Charles Mills, Esq. (4) John Masterman, Esq., M.P.

(4) John Masterman, Esq., M.P.
(2) John Petty Musprat, Esq.
(2) George Lyall, Esq.
(3) Henry Shank, Esq.
(4) Russell Ellice, Esq.
(4) Sir Richard Jenkins, G.C.B.
(3) John Cotton, Esq.
(4) William Butterworth Bayley, Esq.

(1) Sir Henry Willock, K.L.S.
(1) Sir James Weir Hogg Bart., M.P.
(2) Martin Tucker Smith, Esq.
(1) Lieutenant-Colonel William Henry
Sykes.

3) Wm. Henry Chicheley Plowden, Esq. (4) Major-General Archibald Galloway (2) Elliot Macnaghten, Esq. (1) John Clarmont Whiteman, Esq.

(4) Ross Donelly Mangles, Esq., M.P. (1) William Joseph Eastwick, Esq.

THE FOLLOWING GENTLEMEN ARE OUT BY ROTATION.

Henry Alexander, Esq. Hon. William Henry Leslie Melville. Major James Oliphant, Esq.

John Shepherd, Esq. Francis Warden, Esq. Sir William Young, Bart.

LAW COURTS.

CHANCERY.—Lord High Chancellor, Lord Cottenham. Master of the Rolls, Lord Langdale. Vice Chancellor, Sir L. Shadwell. First Vice Chancellor, Sir James L. K. Bruce; Second ditto, Sir James Wigram.

QUEEN'S BENCH.—Lord Chief Justice, Lord Denman. Judges, Sir John Patteson, Sir John T. Coleridge, Sir Wm. Wightman, Sir Wm. Erle.

COMMON PLEAS.—Lord Chief Justice, Sir Thomas Wilde. Judges, Sir Thomas Coltman, Sir Wm. Hen. Maule, Sir W. Cresswell, Sir Vaughan Wilhams.

EXCHEQUER.—Lord Chief Baron, Sir Frederick Pollock. Barons, Sir James Parke, Sir Edw. H. Alderson, Sir Robert M. Rolfe, Sir Thomas J. Platt.

COURT OF BANKRUPTCY.

COURT OF BANKKUPTOT.

Birmingham, John Balguy, Q.C., Esq., and Robert Daniell, Esq.
Liverpool, Walter Skirrow, Esq., and — Perry, Esq.
Manchester, Ebenezer Ludlow, Esq., Sergeant, and Wm. Thos. Jemmett, Esq.
Leeds, Martin John West, Esq., and W. S. Ayrton, Esq.
Bristol, H. J. Stephen, Esq., Sergeant, and Richard Stevenson, Esq.
Exeter, Edward Goulburn, Esq., Sergeant
Newcastle, N. Eilison, Esq.

OLD BAILEY SESSIONS FOR 1848.

Monday, Jan. 3. Monday, Jan. 31. Monday, Feb. 28. Monday, April 3 Monday, May 15. Monday, June 12. Monday, July 3. Monday, August 21.

Monday, Sept. 18. Monday, Oct. 23.

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and 4—16e 5s. BAVABIA.—The Minister, 3, Hill-street, Berkeley-square, when personally known to him; or at the Consul Office. BRAZIL.—Legation, 10, York-place, Portman-square, between 12 and 2, gratis. DENMABK.—6, Warnford-court, between 10 and 4—fee 10s. 6d. FRANCE.—French passport-office, 6, Poland-street, Oxford-street, from 11 to 5; delivered next day between 1 and 3, on personal application, gratis; also at the Consul's office, between 12 and 4—fee 10s. GREECE.—25, Finsbury-circus, between 11 and 4—fee 2s. 6d. HANOVER.—Secretary to Embassy, 4, Hobart-place, Eaton-square, between 10 and 3; and at the Consul'a Office, between 10 and 3, gratis.

THE POLE STAR.

THE POLE STAR.

THE Pole Star, or, as it is called by Astronomers, Polaris, is situated very near to that point in which the Earth's axis of rotation, if continued, would meet the Heavens; if the star were situated exactly at this point it would remain immoveably fixed in the centre of the field of a telescope when directed towards it, from year to year, and the star would always be really due N., but it is not so situated. All stars will appear to describe circles round this point, propritioned to their angular distance from it (the North Pole), once in tweuty-four hours, so that twice every day the same star must he on the Meridian, once above this point and once below it. The following are the times on the 1st day of every month this year, that Polaris is so situated, and at no other times is the star due N. on these days:—

		M.								. M.	s.					
January 1st at	6	24	45	A.M.	helow	the	Pole;	and	6	22	47	P.M.	ahove	the	Pole	
February ,,	4	22	28	• • • •		**		22	4	20	30	22		,,		ı
March ,,	2	28	7	**		12		22	2	26	9	12		,,		ı
April ,,	0	26	5			99		11	0	24	7	22		27		ı
May "	10	26	16		above		Pole	21	10	24	18	21	helow	the	Pole	ı
Jnne "	8	24	43	٠,,		,,		11	8	22	45			,,		ı
July ,,	6	27	7			,,		**	6	2	5 9	"		**		ı
Angust ,,	4		44			"		11	4	0	46			"		ı
September ,,	2	24	46			,,		- 11	2	22	48			22		ı
October ,,		26				"		"	0	24	21	"		"		ı
November ,		22			below	the	Pole	"	10	20	29	"	ahove		Pole	
December "		24				"		"		22				"	_ /10	Ø

From these times those of the Meridian passage of the star can be easily calculated for any other day in each month.

POSITION OF THE NEW PLANET AMONG THE STARS, ON ITS DISCOVERY BY MS. HIND.



If this star he viewed through a good telescope for a few minutes, it will be seen decidedly to have changed its place; though the change will not appear to he large. If the telescope then he directed to a star situated some distance from the Pole, the latter star will move rapidly, and pass across the field of view in a short time; for in what proportion soever an object be magnified, if it he in motion, its velocity will be increased in the same ratio, and no inexperienced observer can view the rapidity of a star's motion across the field of a telescope without feeling a degree of surprise. No telescope, however powerful, has yet heen constructed capable of showing any sensible size to the fixed stars.

ZODIACAL LIGHT

A BRIGHTNESS sometimes seen in the Heavens at certain times of the year, after Sunsot, or hefore Sunrise. This light in some respects resembles that of the Milky Way, but is less hright. Its form resembles that of a pyramid, lying lengthways in the Zodiac, within which its apex and axis always lie. Its base is at all times towards the Sun. In our latitude it may he seen ahout the times of the equinoxes, and probably the hest time for seeing it is at the hegining of March, at about seven o'clock in the evening, when the twilight is ending, and the equinoxein point is in the hoption.

equinoctial point is in the horizon.

This light is more or less visible according to circumstances; its oblique posi-

This light is more or less visible according to circumstances; its ohlique position does not permit us to see it distinctly, and snfficiently above the horizon, except some little time after Sunset towards the end of the Winter and the beginning of Spring, and some little time before Suorise in Autumn and the heginning of Winter. Several causes exist to hinder our seeing it readily, such as moonlight and strong twilight.

The writer of this, however, has seen it frequently at these times, but more particularly at the time of the presence of the Great Comet in the Spring of 1843; hut, probably, the hest appearance of the light was seen by him in the year BY Ma. HIND.

1842, on December 2nd, at 6h. A.M. The light was then very hright; its extreme right edge passed through Spica Virginis, a little to the right of the Planet Mars, very nearly through Beta Virginis, and, leaving Regulns to the left, it was lost in the trapezium formed by the four stars Gamma, Eta, Chi, and Xi Leonis; downwards it extended to within 5° of the horizon; the other houndary passed from the trapezium through Beta Leonis, and to the left of Epsilon Virginis, and so downwards towards the horizon. At about 5° altitude its hase was about 20°, or something less than the distance of Spica from Beta Virginis.

THE NEW PLANET IRIS.

On the 13th of August, 1847, Mr. Hind discovered a new Placet, forming one of the remarkable group, hetween Mars and Jupiter. The symbol first adopted was that which will be found in the following page; we understand, llowever, that the symbol now adopted is a semicircle with an interior star. The Planet was detected in a systematic an interior star. The Planet was detected in a systematic search for one, instituted expressly with the view to the discovery of such a hody, and commenced in November, 1846. The elements of the new Planet hy Mr. Hind are

Mcan Anomaly	303°.	9'.	2".	58	
π	38.	36.	28.	577	Mean Equinox
Ω	258.	52.	48.	415	September 0.
ī	5.	22.	41.	75	
φ	14.	43.	10.	80	
Log. a	0.	3858	3212		
μ	93	5",99	78		
€	0.2	25409	0		

We understand that Mr. Hind has discovered another new Planet, forming one of the same group, and situated between Mars and Jupiter.

The Planet, at the time of its discovery, occupied the space within the triangle, and the arrow shows the direction of its motion at that time.

PUBLIC INCOME AND EXPENDITURE

An account of the total amount of the public revenue received into and expended from the Exchequer, and the halances remaining at the close of each year from 1836 to 1846 ioclusive, was ordered by the Commons to he printed on the

19th January, 1847. The total amount of income received into the Exchequer during the past year, 1846, was £53,790,138, and the total expenditure therefrom £50,943,830, including £28,077,987, for the annual charge on the funded and unfunded deht; £2,736,807 for other charges on the Consolidated Fund; £16,864,697 for the army, oavy, and ordnance services; and £3,264,339, for miscellaneous services, leaving a surplus of income amounting to £2,846,308. In 1845 the excess of income was £3,817,642, the receipts having amounted to £53,060,354, and the expenditure to £40,049,719 £49,242,712.

249,242,712.

The gross total estimated amount of the taxes repealed or reduced during the above mentioned decennial period is £10,042,414: the principal items being pepper, sugar, paper, spiritlicences, newspaper stamps, postage, coffee, timber, export duties, Customs duties, Irish spirits, marine insurances, cotton-wool, cosls, (export duty,) glass, auctioos, corn, provisions, &c.

The total amount of the new taxes concurrently imposed is £7,940,993, the principal items being the income-tax, which alone contributes £5,100,000, and the increase of 5 per cent. on the Customs and Excise proposed in 1840 by Mr. Baring, The Capital of the funded and unfunded deht now amounts to £782,918,984. viz., £764,098,294 for the funded, and £18,310,700 for the unfunded deht.

The halance in the Exchequer at the close of the year (1846) amounted to the sum of £9,131,282. Such are the interesting particulars which have heen gleaned from this return.

from this return.

RAILWAY RECEIPTS.

The casual observer of Railway proceedings is little aware of the magnitude of their dealings. The following enormons amount of receipts, the produce of 37 Railways in England, Ireland, and Scotland, for passengers and goods traffic, is calenlated from weekly official returns made to the Government, and are taken from the latter end of September and the beginning of October, which may he relied on as a fair average of the yearly produce of these 37 Railways.

	æ	s.	a.	
Received, on 27 Lines, for passengers, mails, car riages, and parcels traffic	5,749,979	10	4	
Received on Ditto, for goods, cattle, sheep, &c	2,502,737	18	0	
Received, on 10 Lines, which have uot distinguished the Passeogers from the goods traffic; but which have given a gross return only	3,101,015	4	8	
	C11 252 720	12	_	

Another immense item, which has, perhaps, not heen generally noticed, is the ontlay—npwards of £13,000,000 have already been expended this year on 50 Railways now in progress or extension.

The following list shows the amount required to pay Railway Calls, during one

month (October) of 1847:—				
	Date	Amount	No. of	
	when	per	Shares	Total.
	Due.	Share.		ł
and Mark Town				
Birkenhead, Lancashire, and Cheshire Junc-	00	01 5	45 000	ALC DED
tion, £31	28	£1 5	45,000	£56,250
Caledonian (Original)	1		42,000	420,000
Ditto (Halvas)	14	1 5	51,000	63,750
Chester and Holyhead (£50 Shares)	21	5 0	42,000	210,000
Dundalk and Enniskillen	15	2 10	15,000	37,500
Fact Indian	15	1 0	220,000	220,000
East Anglian (£3 10s. Shares Second Issue)	7	1 0	22,800	22,800
East Lancashire Quarters	14	2 10	34,720	86,800
Fleetwood, Preston, and West Riding Junc-				
tion	15	1 10	22,500	33,750
Irish South-Eastern	1	1 0	52 500	52,500
Londonderry and Enniskillen	15	1 5	10,000	12,500
London and North-Western (L. and B. £25)	1	5 0	55,000	275,000
Ditto (G. J. £25)	15	5 0	24,789	123,915
Londouderry and Coleraine	16	2 10	10,000	25,000
Leeds, Dewshury, and Manchester (Branch		100		
Leeds, Dewshury, and Manchester (Dranes	4	5 0	4.000	20,000
	15	5 0	18,000	90,000
			,	,
Lancashire and York (Wakefield, Poutefract	1	5 0	7,300	36,500
	11	3 0	48,444	145,332
	12	5 0	10,640	53,200
Ditto (Huddersfield & Sheffield Junc. £50)		0 0	10,000	
Manchester, Sheffield, and Liocolnshire,	1	5 0	87,200	436,000
Preference, £10	•	0 0	0,,200	100,000
Newcastle and Carlisle New, £100 (Issued	21	10 0	2,400	24,000
July 26, 1847)	1	1 5	5,000	6.250
Newry, Warrenpoint, and Rostrevor	12	2 0	50,000	100,000
Nampr and Liega	12	7 10	30,000	225,090
Oxford, Worcester, and Wolverhampton	12	7 10	30,000	220,030
St. Helen's Canal and Rahway 223, (6 per	٠, ١	2 10	6.336	15.840
Cent. gnaranteed)	1		20,000	40,000
Swanger Lougher &c	12	2 0		
Tourney Jurbise and Landen and Hussitt	25	4 0	25,000	100,000
York and North Midland (Hull and Selby			CO 050	251,800
nurchase)	7	4 0	62,950	
York, Newcastle, and Berwick (Ex., No. 2)	- 14	5 0	62,000	310,000

Total

.. £3,493,717

NEW DOMESTIC RECEIPTS.

HOT CRAB.

Pick the Crab, cut the solid part into small pleces, and mix the inside with a little rich gravy or cream, and seasoning; then add some curry-paste, and fine bread-crumbs; put all into the shell of the Crab, and finish in a Dutch oven, or with a salamander.

NEW MODE OF MAKING COFFEE.

Dr. Ratier assures us that the aroma of Coffee is better extracted by cold water Dr. Ratier assures us that the aroma of Coffee is better extracted by cold water than by hot. For this purpose, he recommends that four ounces of good Coffee, properly roasted and ground, he mixed into a pap, or thin paste with cold water, and left to steep, covered closely, for a night. Next day, pour this pap carefully on fine linen, placed in a glass funnel, in a hottle. A single spoonful of this very strong infusion, poured into a cup of bolling milk, will give the whole a delightful aroma. Or, one part of the infusion, and two parts of water, put on the fire till it just boils, will yield a delicious Coffee. The strong essence should be kept in a closely-stopped hottle.

TO DRESS HARICOT BEANS.

Many persons are prejudiced against certain vegetables, (says the Midland Florist,) for no other reason than hecause they are not used to them, &c. For instance, we seldom hear of French Beans being cooked when in a dry state; yet, on the Continent, they are highly esteemed; and if given a fair trial here, we see no reason why they should not become as much used for soup making as peas. The Haricot Beans should be prepared as follows:—Put the Haricots into coldwater, boil them gently till the skins begin to crack, then pour away the water, which is always hauseous; have ready boiling water to supply its place; simmer the Haricots till tender. They must not be allowed to get cold whilst cooking, or they can never be boiled tender.

TO PRESERVE BUTTER.

To PRESERVE BUTTER.

The cause of the tainting of fresh Butter depends upon the presence of a small quantity of curd and water. To render Butter capable of being kept for any length of time in a fresh condition, that is as a pure solid oil, all that is necessary is to hoil it in a pan till the water is removed, which is marked by the cessation of violent ebuilition. By allowing the liquid oil to stand for a little, the curd subsides, and the oil may then be poured off, or it may be strained through calico or mnslin into a hottle, and corked up. When it is to be used, it may be gently heated and poured ont of the hottle, or cut ont by means of a knife or cheese-gonge. This is the usual method of preserving Butter in India (ghee), and also on the Continent; and its rather remarkable that it is not in general use in this country. Bottled Butter will thus keep for any length of time; and is the best form of this substance to use for sauces.

PICKLED EGGS.

In the counties of Hants and Dorset, Pickled Eggs constitute a very prominent feature in the farmhouse store-rooms. The mode in which the good dames pickle them is simply thus:—At the season of the year when their stock of Eggs is plentiful, they boll some four or six dozen in a capacious sancepan, until they hecome quite hard. They then, after removing the shells, lay them carefully in largemonthed jars, and pour over them scalding vinegar, well seasoned with whole pepper, allspice, a few pieces of ginger, and a few cloves of garlic. When cold, they are hunged down close, and in a month are fit for use. Where Eggs are plentiful, the above pickle is by no means expensive, and is a relishing accompaniment to cold meat.

TO DRESS VEGETABLE MARROW.

Have ready a gallon saucepan, rather more than half full of holling water. Just hefore putting in the Marrow, throw in a teaspoonful of salt and half a one of carhonate of soda. Cut the Marrow into four parts, lengthwise, without peeling it; or if it he the very large kind, divide each quarter transversely, making eight pieces. The small delicate Persian variety need only he halved lengthwise. Throw the pieces quickly into the water, keeping it rapidly holling all the time; they will take from a quarter to half an hour, according to the species and age. They are best when ten days or a fortnight old, but are excellent whatever age they are. While the marrow is boiling; make about the third of a pint of melted hutter, and a round of toast; cut the crust off, and dip the toast twice into the water in which the marrow is boiling; lay it in a dish, and pepper it slightly. When done, take up the Marrow carefully with a fish-slice or large spoon, and lay it on the toast; pepper it well, and pour the melted butter over all. lay it on the toast; pepper it well, and pour the melted butter over all. It should be served up as hot as possible. Prepared thus, vegetable marrow is scarcely inferior to asparagus, and forms an elegant and wholesome supper-dish; as a dinner vegetable, it should appear with roast mutton. Be sure never to peel the Marrow.

STONE'S PATENT RHIBARS WINE.

Take the green stalks, or stems of the Rhnbarh Plant, (about the middle of May,) and bruise them, in a mortar, or otherwise, to a pulp. Put this into an open tuh, and to five pounds of pulp add one gallon of cold spring water. Let it infuse three days, stirring it frequently; on the fourth day, strain off the liquor, and to each gallon add 3lh loaf sugar; stir itnntil the sugar be dissolved. Then, let it rest, and in four or five days, the fermentation will begin to suhside, and there will be formed a crust, or head, which should be skimmed off. Put the clear wine into a cask, in ahont a fortnlight, stop it down, and let it remain till March in the next year, when it should he racked, and again stopped down; but if the wine should have lost any of its original sweetness, add a sufficient quantity of loaf sugar, and stop it down; taking care, in all cases, that the cask be full. In a month, or six weeks, It will be fit to hottle, and in the summer to drink. Rhnharh, ahont the latter end of August, will produce a second crop, when a second quantity of wine may be made.

The artificial production of Ice has, of late, been brought to great perfection. A Freezing Powder is made by Messrs. Lings and Keith, of Princes-street, Leicester-square, hy which a hottle of wine may he iced at the cost of little more than a penny! By aid of machinery and this freezing preparation, a large castle has been frozen, in metal moulds, from the purest spring water; it was five feet in length, the same in height, and weighed nearly 7 cwt. The Patent Ice-Safe, by the above makers, is a snecessful invention. It resembles a large chest, opening in tront, as well as at the top: the outer sides are thick, and filled with a nonconducting substance; the interior is fitted with zinced shelves, the ice being placed in a central upright chamber. The advantages of this Safe are not only due to the cold and at the same time perfectly dry atmosphere existing in its inten placed in a central upright chamner. The advantages of this saie are not only due to the cold and at the same time perfectly dry atmosphere existing in its interior, in consequence of the patented principle of the ice heing contained in a separate chamber, but also to its great economy in the consumption of Ice. Fruit and vegetables, including strawberries, asparagus, chambers, &c., may he preserved in this Safe upwards of a fortnight, in a state quite fit for the table; and hutter may be almost frozen in it in two hours.

FIRES IN CHIMNEYS.

Fires in chimneys in France have been prevented by placing three frames of wire-work, one foot ahove each other, near the lower mouth of the chimney; no flame will pass through them, and, consequently, no fire can happen; while the draught of the chimney will not he impared.

TO REMOVE IRON-MOULD.

Dr. Thomson recommends that the part stained should be re-moistened with ink, and this removed by the use of muriatic acid, diluted with five or six times its weight of water, when the old and new stain will be simultaneously removed.

THE BEST TOOTH-POWDER.

Finely-powdered charcoal (calcined bread or sugar), forms an excellent Tooth-powder: it cleanses the mouth both mechanically and chemically; but, as it is dusty, and not easily miscible with water when alone, it may, on this account, be mixed with an eqnal weight of prepared chalk, and, if agreeable, be scented with a few drops of oil of cloves.

TO REMOVE WARTS.

Mr. Erasmus Wilson, in his popular work on "Healthy Skin," says: "The hest treatment of Warts is to pare the hard and dry skin from their tops, and then touch them with the smallest drop of strong acetic acid, taking care that the acid does not run off the wart on the neighbouring skin; for, if it do, it will occasion inflammation and much pain. If this practice be continued once or twice daily, with regularity, paring the surface of the Wart occasionally, when it gets hard and dry, the Wart may be soon effectually cured."

THE CREOSOTE MEAT-SAFE.

Creoste is a newly-discovered article used for preserving meat, but giving it a disagreeable taste and smell. This, Dr. Stenhouse has onviated, by placing a small plate containing a little Creosote immediately under each piece of meat as the hangs in the larder, and covering both with a cloth. The Creosote soon forms an atmosphere around the meat, and will keep it three or four days longer than otherwise and the meat, and will keep it three or four days longer than otherwise; and the meat will not have when cooked, the slightest smell or taste of Creosote. Or, the joint may be snspended in a wooden box or earthern jar, to he with a lid. Another advantage attending the use of Creosote is, that it frees a larder from flies.

DANGER OF LEAD CISTERNS.

Any person possessed of a Leaden Cistern should forthwith get for it a temporary zinc bottom, to fit inside and to lay above the other. Leaden waterpipes might have an inch or two of zinc pipe screwed on at the end,—so that it may from time to time be removed and cleaned. Once a week or fortnight this hottom should be taken out and properly cleaned. The metal is wholesome, not expensive,—and malleable zinc will be the most convenient for the purpose. It should be added that, as sure as night succeeds to day, every particle of lead that may from time to time be in solution, will make for, or he precipitated on the zinc,—there to remain till brushed off there to remain till brushed off.

TO TAKE PAINT OFF OAK-PANELING.

The only method of removing Paint from oak-paneling, carving, &c., is as follows:—Make a strong solution of American potash (which can be bought at any colour shop, and resembles hurnt hirch in appearance); mix this with sawdinst into a sort of paste, and spread it all over the paint, which will become softened in a few hours, and is easily removed by washing with cold water. If, after the paneling, &c. is dry, it becomes cracked, apply a solution of hot size with a brush, which will bind it well together, and make it better for varnishing; as well as destroy the beetle which is often met with in old oak, and is erroneously called the worm. the worm.

CEMENT FOR CHINA AND GLASS.

The most successful Cement for fractured porcelain and glass is composed as follows: two parts isinglass, cut into fine pieces, are left for 24 hours, covered with 16 parts water, then boiled down to eight parts, mixed with eight parts alcohol, and strained through linen. This liquid is mixed while how with a solution of one part mastic, in nine parts alcohol; and to the whole half part gum ammoniacum, finely pulverised, is added gradually, and the liquid thoroughly mixed. This Cement, while hot, is quite liquid, but on cooling hecomes hard; in using it, both the Cement and the fragments are made as warm as possible, both pieces allowed to dry, then again ruthed over with the cement and pressed together. After five or six hours the cement is perfectly hard. It is not applicable to vessels of porous earthenware; the best Cement in this case is the thick solution of shell-lac in spirits of wine.

DEATH FROM EATING CAKE ORNAMENTS.

The experience of every year adds to the proof of the danger of Cake decorations. In January last, an inquest was held at Sudhury, on the hody of Maria Louisa French, aged 8 years, who died from eating some ornaments on a Twelfth Cake. On examining the green particles discharged from the stomach, they were found to consist of Scheele's Green, or arsenite of copper, a deadly poison. The Jnry returned the following verdict:—"That the deceased came to her death from accidentally eating Ornaments from Cakes of a poisonous nature, and from no ther dentally eating Ornaments from Cakes of a poisonous nature, and from no other cause. The jury unauimously add, that from the number of fatal accidents that have of late years happened by the useless, but common practice of using various poisonous ingredients in emhellishing cakes and other articles of confectionary, it is their decided opinion that a practice fraught with danger to the lives or health of her Majesty's snhjects ought to be immediately restrained."

THE PHILOSOPHY OF DROWNING.

Man Is the only animal that drowns naturally. He does so because he is endowed with reason—that is to say, with a large spherical brain with a skull on it, which rises above his nose. If he fall into deep water, in spite of his great brain, he has not presence of mind enough to stick his nose out and keep it out, as he easily might do; but his heavy head, like a stone, tresses his nose under water. In this position he inhales and fills his chest with water,—so that he becomes on the whole so much heavier than water as to sink. While the lungs are filled with air, the body is lighter than its bulk of water, and of course swims just as an iron vessel does. All, therefore, which is necessary to keep a person from drowing in deep water is to keep the water out of the lungs. Suppose yourself a bottle. Your nose is the nozzle of the hottle, and must he kept out of the water. If it goes under, don't hreathe at all till it comes out. Then, to prevent its going down again, keep every other part under—head, legs, arms, all under water but your nose. Do that, and you can't sink in any depth of water. All you need to do to secure this is to clasp your hands behind your back, and point your nose at the top of the heavens and keep perfectly still. Your nose will never go under water to the end of time, unless you raise your brain, hand, knee, or foot higher than it. Keep still with your nose turned up in perfect impudence, and you are safe. This will do in tolerahly still water: in boisterons water you will need a little of the art of swimming.

STAMPS AND TAXES.

RECEIPT	STAMPS.
• d .	

					8.								8.	d.	
For £	5 and	under	£10	••	0	3	For	£200	and	under	£300	••	4	0	
1	0		20		0	6	1	300			500		5	0	
2	0		50	••	1	0	1	500			1000		7	6	
5	0		100	••	1	6		1000	and	upware	ds		10	0	
10	0		200		2	6		In fa	ll of	all den	aands		10	0	
	N.B.	-Pers	ons re	eceiving	the	mon	ey ar	e com	pell	ed to p	ay the	duty	7.		

BILLS AND	MOTES

Not ex. Exceed.													
								nont		2	mor	aths.	
								\$.	d.		5.	d.	
£2	and	not	exceeding	£5	58.			1	0		1	6	
Above 5	5		••	20				1	6		2	0	
20				30		• •		2	0		2	6	
30		• •		50		• •		2	6		3	6	
50				100			••	3	6		4	6	
100			• •	200			• •	4	6	• •	5	0	
200				300	• •			5	0		6	0	
300				500			• •	6	0		8	6	
500				1000		• •	• •	8	6		12	6	
1000				2000		• •		12	6		15	0	
2000				3000				15	0		25	0	
Ahove	3			3000		• •		25	0		30	0	
Promissory Note for the payment of any sum of money by Instalments, the same duty as on a Promissory Note payable in less than two months.													

BONDS AND MORTGAGES.

Any	sum n	ot ex	ceeding	£50	£1	0	Above	£2,000	not	exceeding	3,000	£7	0
Abov	e £50	not	exceeding	g 100	1	10	,,	3,000	••	••	4,000		0
,,	100			200	2	0	99	4,000		••			0
"	200	• •		300	3	0	,,,	5,000			10,000		0
,,	300	• •		400	4	0	,,	10,000			15,000		0
22	500		••	1000	5	0	,,	15,000			20,000		0
,,	1000			2000		0			E	Exceeding			0
	Bonds	of e	very 1080	words (above	th.	e first,	258.		Mortga	ges, 20s	3.	

APPRENTICES' INDENTURES

Under	and und	£30	£1	£100 an	d under	£200	£6	£400 a	nd under	£500 :	£25
£30	and und	er 50	2	200		300	12	500		600	30
50		100	3	300		400	20				

Where no such consideration, if the instrument shall not contain more than 1080 words, £1. And if it shall contain more than that quantity, £1 15s.

PROBATES	QF WII	LS AND LI	ETTERS	OF	ADMIN	ISTRATION.
Above the Value	of	And under.	With a	Wil	1.	Without a Will.
£		£	£	8.		
20		50	0	0		10s.
20		100	0	10		_
50		100	1	0		£1
100		200	2	0		3
200		300	5	0		8
300		450	8	0		11
450		600	11	0		15
600		800	15	0		22
800	••	1000	22	0	• •	30
1000		1500	30	0		45
1500		2000	40	0		60
2000		3000	50	0	••	75
3000		4000	60	0		90
4000	••	5000	80	0		120
5000	••	6000	100	0	• •	150

The scale continues to increase up to £1,000,000.

APPRAISEMENT STAMPS.

l	Where such appraisements of valu-	s.d.	Above £100 not	excee	ding	£200	£0	15
ŀ	ation shall not exceed £50						0	10
ı	Above £50 and not exceeding 100	5 0				500	1	0

DUTIES ON LEGACIES.

Of the value of £20, or npwards, out of Personal Estate, or charged npon Real Estate, &c.; and upon every share of Residue—To a child, or parent, or any lineal descendant, or ancestor of the deceased, £1 per cent. To a Brother or Sister or their descendants, £3 per cent. To an Uncle, or Aunt, or their descendants, £5 per cent. To a Great Uncle, or Great Aunt, or their descendants, £6 per cent. To any other Relation or Stranger in Blood, £10 per cent.—Legacy to Hushand or wife exempt.

If the deceased died prior to the 5th of April, 1805, the duty only attaches on

Personal Estates, and by a lower scale.

		LICEN	SES.				
For Marriage, if sp	eclal					£5	0
Ditto, if not special		• •			• 1	0	10
For Bankers						30	0
For Pawnbrokers,	within the	limits o	f the two	enny po	ost	15	0
Elsewhere			••		• •	7	10
For Appraisers		• •	••		• •	2	0
For Hawkers and 1	Pedlars, o	n foot			• •	4	0
Ditto, with one hor			••	• •		8	0
Stage Carriage Lice				• •	••	3	3
Hackney Carriage					••	5	0
Selling Beer, to he				••	••	3	3
Ditto, not to be dru	nk on the	Premise	89			1	- 1

Dogs.			
For every greyhound	£1	0	0
For every hound, pointer, setting dog, spaniel, terrier, or lurcher,			
and for every dog, where two or more are kept, of whatever			
denomination they may be (except greybounds)	0	14	0
The commence of the last time and authority bank	ň	- 0	0
	36	0	Õ
Compounding a pack of honnds			
Farmers with farms under £100 value, and shepherds, are	exe	nbr	
from dogs kept for the care of sheep.			

WINDOW TAX.

Windows	Duty per Annum.	Windows	Duty per Annum.	Windows	Duty per Annum.	Windows	Duty per Annum.	
8 9 10 11 12 13 14 15	£ s. d. 0 16 6 1 1 0 1 8 0 1 16 3 2 4 9 2 13 3 3 1 9 3 10 0	16 17 18 19 20 21 22 23	£ s, d. 3 18 6 4 7 0 4 15 2 5 3 9 5 12 3 6 0 6 6 9 0 6 17 6 ging to Farms	24 25 26 27 28 29 30 31	£ s. d 7 5 9 7 14 3 8 2 9 8 11 0 8 19 6 9 8 3 9 16 3 10 4 9	32 33 34 35 36 37 38 39	£. s. d. 10 13 3 11 1 6 11 10 0 11 18 3 12 6 9 12 15 3 13 3 6 13 12 0	

. By cap. 17, 3 and 4 Vict.. an additional £10 per ceut, is imposed upon all the Assessed Taxes, Customs, and Excise.

DUTIES ON CARRIAGES.

WITH FOUR WHEELS.

No.	Per carriage for private use.	No.	Stage coaches & post chaises			
	£ s. d.		£ s. d.			
1	6 0 0	1	5 5 0			
2	6 10 0	2	10 10 0			
3	7 0 0	3	15 15 0			
4	7 10 0	4	21 0 0			
5	7 17 6	5	26 5 0			
6	8 4 0	. 6	31 10 0			
7	8 10 0	7	36 15 0			
8	8 16 0	8	42 0 0			
9	9 1 6	9	47 5 0			

WITH TWO WHEELS. £ s. 3 5 4 10 1 11

casionally used for riding, are exempt.

HORSE TAX.

		1 1	
No.	Each Horse.	No.	Each Horse.
	£ 8. d.		£ 8. d.
1	1 8 9	11	3 3 6
2	2 7 3	12	3 3 6
3	2 12 3	13	3 3 9
4	2 15 0	14	3 3 9
5	2 15 9	15	3 3 9
6	2 18 0	16	3 3 9
7	2 19 9	17	3 4 0
8	2 19 9	18	3 4 6
9	3 0 9	19	3 5 0
10	3 3 6	20	3 6 0

Horses let to hire with post duty, each .. Race Horses, each Horses rode hy hutchers in their trade, each ... 3 10 Õ 8

PENALTIES UNDER THE STAMP ACT.

FENALITIES UNDER THE STAMP ACT.

For acting as an Appraiser without a license, £50.

For every Appraisement written upon paper not duly stamped, £50.

Apprentices' Indentures to state the realiamount of premium, in proportion to which the stamp duty is charged, on penalty of forfeiting double the amount of

premium.
For Attorneys and Solicitors acting without having been admitted, £100.—For

acting without certificate, £50.

For drawing a Bill or Promissory Note upon nustamped paper, or upon paper Insufficiently or wrongly stamped, £50.—For post-dating Bills of Exchange, £100.

For drawing a Cheque more than 15 miles from the place where made payable, £100.—For receiving the same in payment, £20.—For Bankers paying the same, £100. £100.

For setting out wrong amount in Conveyance. On the Attorney, £500. On the Pourchaser, £50.

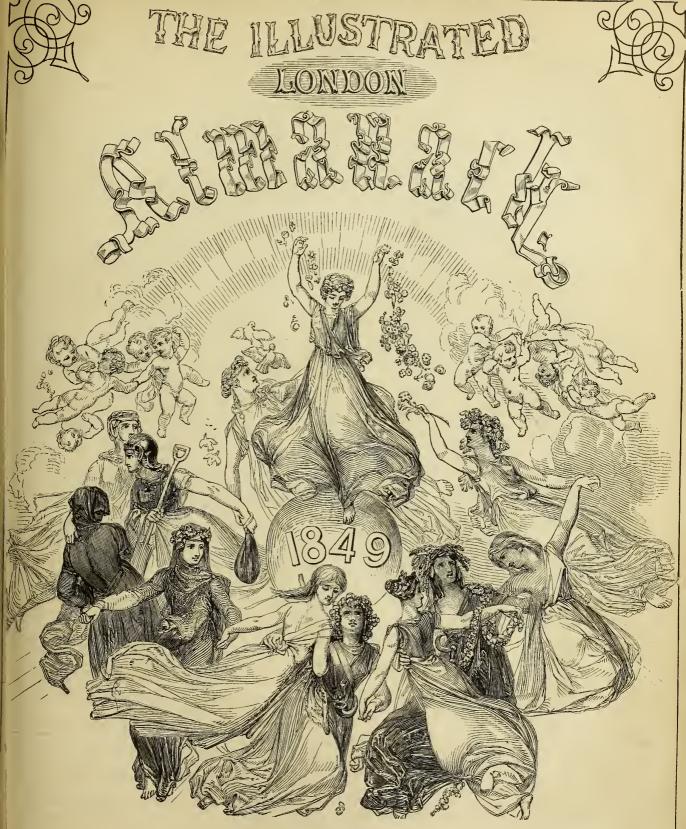
For setting patent Medicines, &c., without a license, £20. Without a stamp, £10. For printing a Newspaper without first making declaration as to the ownership, &c., £50 for every day such paper shall be printed or published.—For printing without stamps, on each paper issued, £20.

For neglecting or delaying to enter Pamphlets at the Stamp Office, or selling without paying duty when demanded, £20.

For Paunbrokers taking pledges without a license, £50. For selling Plate without a licence, £20. For selling plate without a license, £50. For face without a license, £50. For face without a license, £50. For selling plate without heing duly stamped, £50. For telling plate without heing duly stamped, £50. For telling plate without heing duly stamped, £50. For telling possession of the cffects of any one deceased, without taking out Letters of Administration, £100.

For giving an unstamped receipt for money amounting to £5 and upwards, £10. For retriesing to give a receipt when demanded for money paid, and amounting to £5, £10.

to £5, £10. For selling playing cards without an Ace of Spades duly stamped, £10. For being in possession of unstamped playing cards, £5 per pack.



LONDON:

PUBLISHED AT THE OFFICE OF THE ILLUSTRATED LONDON NEWS,
198, STRAND.

INTRODUCTION.

IT is now five years since the First Volume of the Illustraten Lonnon Almanack for the year 1845 was published; and this Volume is the fifth of the series. We avail ourselves of the opporturity which the occasion affords, of expressing our grateful acknowledgements to many Correspondents who have kindly suggested improvements; and assure them that their several wishes have been attended to, as for as our space affords. This Volume will be found to contain fully the usual variety of information.

The ILLGSTRATIONS heading the Calendars are from the pencil of Richard Dotle, E.q., and are engraved by Dalziel.

The Calendar and Second Page of every Month, as well as all relating to Astronomy, Meteorology, and Science, have been under the superintendence of James Glaishea, Eq. F.R.A.S., and of the Royal Observatory at Greenwich.

The ILLGSTRATIONS ON THE THIRD AND FOURTH PAGES OF EVERY MONTH are from the pencil of B. Fuster, Esq., and engraved by Vizitelly.

The Whole of the matter contained in the Thibn and Fourth Pages of Every Month is from the very a be pen of the well-known writer ni on

The Whole of the matter contained in the Thibn and Fourth Pages of every Month is from the very able pen of the well-known writer not country Scenes, &c., Thomas Miller, Eq.

The remarks upon Gardening are from the well-known Authoress, Mrs. Loudon; and the Domestic Hints are by M. Soyre.

We deem it innecessary to repeat the explanations which we have already given in the Introduction to the preceding Volumes, as they apply equally well to this; and shall, therefore, only notice the additional explanations required by the additional information.

Calendarial Pages.—The time the Sun souths is given every day, in common clock time, or the time a watch or clock should shew, when the Sun is on the meridian or due south. In receding Volumes these numbers were given under the bead of "Equation of Time;" and they can be used as directed in those Volumes, by considering that "After 12 o'clock" is equivalent to Add, and "Before 12 o'clock" is equivalent to Suhtract.

The altitudes of the Sun and Moon, when due South at London, whose latitude is 51½°, we given every day. These numbers will answer equally well for any other place, by taking into account the difference of latitude between London and that place. At all places whose latitude is the same as at London, no alteration is needed; at those places situated N. of London, the numbers are to be decleased; and at places situated S. of London, they are to be increased. Thus the latitude of Edinbrigh is 55° nearly, being 44° nearly N. of London; and if the numbers in this Almanack be diminished by 4½°, they would give the altitudes of the Sun and Moon above the horizon, when they are on the meridian of Edinbrigh.

THE THERMOMETER.

THE THERMOMETER.

This instrument was invented about the beginning of the 17th century, and is still one of the most important instruments used in Natural Philosophy. By its means is ascertained that all bodies, on being heated, increase in volume, in a different proportion for each. The change is scarcely visitle in solid bodies, and they, as well as liquids, expand unequally by equal increments of heat. Mercury approaches more nearly to equality in its rate of extension, and remains liquid through a longer range of temperature, and is, therefore, justly preferred to water, oil, alcohol, &c., for thermometric purposes. A common thermometer is a tube of very small diameter, terminating at one of its ends by a cylindrical reservoir, so that very minute expansions of the mercury in the reservoir or bulb may be rendered perceptible. In order to obtain the value of these variatious, a graduated scale is fixed along the tube. These scales, unfortunately, are different in different countries—to be spoken of presently. In order, however, that each observer may trace these divisions himself, it was necessary that two points of invariable temperature should be determined; and after along time, and many attempts, it was found that the temperatures of water just freezing and water boiling were always the same. Both these points, however, were long disputed; and even late in last century it was believed that water at Naples began to freeze when the thermometer was 10 degrees above the freezing point, as shewn by a thermometer constructed in England by the directions of the Royal Society (see Dr. Cyrilli's papers in the "Philosophical Transactions," No. 424, page 336; No. 430, page 189; No. 434, page 407, 408). The fivedness of the freezing point was at last established, and the erron-ous idea was abandoned, that he further north, the greater degree of cole it took to freeze water. The subject occupied the attention of M. Amontons (see Mémolres de l'Académie, 1702, page 204, &c.), Mr. Boyle (see his Experiments on C. 1d), D ment was perfected.

Thermometers used for meteorological researches are wholly surrounded by the Thermometers used for meteorological researches are wholly surrounded by the atmosphere, and therefore the mercury in both the stem and bulb are affected by the tem; erature of the air. The bulbs of those used for chemical purposes are generally only plunged into the liquid. The portion of the stem not immer ed in the liquid is not influenced by the neat; and, therefore, the scales of both method should be totally immersed in boiling water, whilst the bulb of the latter only should be so immersed, on determining the values of their scales. At the Royal Observatory, Greenwich, several thermometers have been read at every even hour, both night and day, during the years 1841 to 1847, excepting on Sundays, Good Fridays, and Christmas-days; and the following are the monthly values of the temperature of the air, as compiled from the published volumes of the Green sich Observations, and the Registrar General's Reports:—

MONTHLY MEAN TEMPERATURE OF THE ALR AT GREENWICH.

Months.	1841.	I842.	1843	1844.	1815.	1546.	1847
	Deg	Deg.	Deg.	licg	Dag.	D·g	Dez.
January	33 6*	32.9	39.9	39.1	38 3	43 7	37.0
February	35.3	40.8	360	35 2	327	43 9	35 5
March	46.2	44.9	429	415	35 2	43 3	414
April	47 0	45 2	47.1	517	46 3	47.1	45.3
May	56.8	53 2	52 2	529	49.4	54 6	56.4
June	56.4	62 9	56.3	60.7	60.7	65.2	58 0
July	578	60 2	60.9	614	59.8	64 5	65 4
August	60.5	65.4	62.1	577	57 3	63 2	62 1
September	58.1	56.4	59.5	56.9	53.6	60. t	54 3
October	48.8	45.4	48 0	49 5	50 2	50 5	52.9
November	42.7	428	43.8	44.0	45.8	46.0	46 9
December	40.5	45.0	43 9	33 0	41 7	32.9	42.8

The mean temperatures for the years 1841 to 1847 are 48° 7, 49° 6, 49° 4, 48° 6, 47° 6, 51° 3, and 49° 5 respectively.

The following table shows the highest observed temperature in each month:-

MONTES.	1841.	1842.	1843.	1844.	1845.	1846.	1847.
	Deg.	Deg.	D:g.	Deg	Deg.	Deg.	Deg
January	53.0	46.8	57.0	53.7	51.3	55.3	52.7
February	54.6	53.2	51.9	50.4	48.5	62.3	55.0
March	66.9	60.5	63.7	60.2	59.4	58.0	64.2
April	76.5	73.7	70.8	74.9	70.3	63.0	63.8
May	82.8	74.7	69.5	77.4	68.2	84.3	86.2
Jnne	78.5	87.4	79.3	87.6	86.0	91.1	80.4
July	76.0	78.8	89.8	87.4	83.3	92.3	89.0
August	79.6	90.5	82.8	75.4	77.8	92.0	87.3
September	79.6	75.8	79.9	78.0	73.5	86.4	72.5
October	64.6	60.9	70.4	67.4	67.6	67.7	73.2
November	58.3	55.9	57.5	58.1	59.6	61.5	66.3
Docombon	6.2.0	50.0	54.7	40.2	55.5	49.9	59.5

^{*} It will be borne in mind that in reading these numbers the figure to the right of the point shows the number of tenth puts of one decree; therefore, the number ranging with January, 1811, is to be read 36 degrees, and 6 tenths of a degree, and so for all the other numbers.

The following table shows the lowest observed temperature every month:-

Months.	1841.	1842.	1843.	1841,	1845.	1846.	1847.
	Deg.	Deg.	D· g	Deg	Deg	Deg.	Deg.
January	4.0	23.2	24.0	18.8	24.4	29.4	23.0
February	12.4	26.4	20.3	20.0	7.7	26.9	10.2
March	29.5	29.9	26.5	24.1	13.1	26.5	16.9
April	31.8	28.0	27.2	33.4	29.5	33.3	27.0
May	41.2	36.4	37.3	33.9	34.4	38.3	36.0
June	40.3	44.7	42.9	43.4	43.8	49.4	41.0
July	41.3	45.5	44.6	47.1	41.6	49.1	45.4
August	45.5	47.5	47.2	42.8	43.2	47.5	42.0
S-ptember	36.6	41.1	34.0	34.8	33.4	39.2	32.0
October	32.2	28.3	28.5	30.8	31.4	35.0	33.0
November	22.6	31.1	27.4	27.4	29.1	23.4	24.5
December	24.3	30.8	25.6	21.1	28.0	18.8	25.0

For the other Meteorological elements belonging to an English year, we refer to the article on Meteorology in last year's Almanack, and to the Eighth Annual Report of the Registrar-General, recently published.

ON THE GRADUATION OF THE SCALES OF THERMOMETERS.

The graduation of Fahrenheit is used by the English; that of Reaumur by the Germans; that of Celsius by the French, calling it thermomètre centigrade; and that of De Lisle by the Russians. The following are the readings for the freezing and boiling points of water upon those scales:

	Fahr.	Reaumur.	Centigrade,	De Lisle.
Freezing points	32°	0°	0°	150°
Boiling points	212°	80°	100°	00

Therefore, the number of degrees included between the freezing and boiling points Intereore, the number of degrees included between the freezing and boiling points of water, in Fahrenheit's scale, is 180°; in Reaumur's, 80°; in the centigrade, 100°; and in De Lisle, is 150°. So that 9° of Fahrenheit, 4° of Reaumur, 5° centigrade, and 7½° of De Lisle are equal to each other. One degree upon Fahrenheit's scale is therefore the smallest, and one on that of Reaumur's is the

The division "0" on all the scales is called Zero; and the degrees graduated below this point are called minus, and have the minus sigu (—) affixed to them. In the Reaumur and centigrade scales, whose Zeros are at the freezing point of water, great care is necessary to be paid, to prevent the readings below Zero

being mistaken for those above.

Different countries, adopting these different scales, cause a great deal of trouble; and is a fruitful source of error in comparing the temperature of different places, as registered by these differently graduated instruments. It is much to be desired, that all nations would use one and the same scale; but there is no hope of this being done.

As these different scales exist, it is desirable to have a ready mesns of converting a reading of one of these scales into its equivalent reading in another; and this may be done by the following rules:—

To reduce Fahrenheit's scale to Reaumur's, when the reading is above 32°.—Take 32° from the reading, multiply the difference by 4, and divide the product by 9.

To reduce Fuhrenheit's scale to Reaumur's, when the reading is below 329.—Take the reading from 32°, multiply the difference by 4, divide the product by 9, and affix the minus sign (—).

To reduce Reaumur's scale to that of Fohrenheit, when the reading is above the freezing point.—Multiply the reading by 9, divide the product by 4, and add 32° to the control of the state of the control of the state of the

the quotient.

To reduce Reaumur's scale to that of Fahrenheit, when the reading is below the freezing point,—Multiply the reading by 9, divide the product by 4, and take the quotient from 32°.

To reduce Fahrenheit's reading to Centigrade, when the reading is above the freezing point.—Take 32° from the reading, multiply the difference by 5, and divide the product by 9.

To reduce Fahrenh it's reading to Centigrade, when the reading is below the freezing point.—Take the reading from 32°, multiply the difference by 5, divide the product by 9, and affix the minus sign (—)

To convert the readings of the Centigrade scale into those of Fahrenheit. - Proceed exactly as in the case of Fahrenheit into Reaumar, except using 5 in-To reduce Reaumur's scale to that of the Centigrade .- Multiply by 5, and divide

the product by 4.

To reduce the Centigrade scale to that of Reaumur.—Multiply the reading by 4, and divide the product by 5.

As the French tables and observations of temperature are those which most frequently come under our notice, it is desirable that a simple mental calculation should suffice. The following rule is the one we use to convert, in a moment, all readings of the centigrade scale into their equivalent values in Fahrenheit's scale; viz. double the centigrade degrees, and deduct one-tenth of the product, adding 32° if the temperature is above the freezing point, or subtracting the product trom 32° if below.

ON THE CALENDAR.

THE PRINCIPAL ARTICLES OF THE CALENDAR, FOR THE YEAR OF OUR LORD 1849.

	Gregorian, or New Calendar	Julian or Old Cylendar
Dominical Letters	G	B
Golden Number	7	7
Roman Indiction	7	7
Solar Cycle	10	10
Epact	6	17

(For remarks upon these articles, see the Almanack for the year 1847.)

CORRESPONDENCE OF THE YEAR 1849 WITH ANCIENT ERAS.

Being, till September 16th, the latter part of the 5609th, and from September 17th the beginning of the 5610th year since the creation of the world, according to the Jews.

Being the 6562nd year of the Julian Period.

Being the 6562nd year of the Julian Period.
Being the 2602nd year since the Foundation of Rome (according to Varro).
Being the 2596th year since the era of Nabonasser, which has been assigned to Wadnesday, the 26th of February, of the 3967th year of the Julian Period, which corresponds, according to ebronologists, to the 747th, and, according to astronomers, to the 746th year before the birth of Christ.

Being the 2625th year of the Olympiads, or the first year of the 657th Olympiad will begin in July, 1849, if we fix the era of the Olympiads at 775½ years before Christ, or at or about the beginning of July of the year 3938 of the Julian Period.

Being the latter pair to f the 1255th, and the beginning of the 1266th year (of twelve lunations) since the Hegira, or flight of Mahomet, which it is generally supposed took place on the 18th of July, in the year 622 of the Christian era. The year 1265 commenced on the 27th of November, 1848, and ends the 16th of November, 1849.

November, 1849.

CALENDAR OF THE JEWS FOR THE YEAR 1849.

5609	5609.		1848	3.		NEW MOONS AND FEASTS.
Tebeth	••	1	December 1849	••	26	Rosh Hodesh, or New Moon
Tebeth		10	January	٠	4	Fast: Siege of Jerusalem
Schebat		ĭ		••	24	rast. Siege in Sei usaiem
Adar	::		February		23	
	••		March	••	7	Fast of Esther
,,		14		••	é	
"		15				Feast of Purim
Nisan			,,		9	Schuschan Purim
MISSIN	••	,1	. ".		24	
79		15	Aprll	••	7	Passover begins*
,,		16	**		8	Second day*
,,		21	33		13	Seventh day *
,,		22	21		14	Passover ends*
Ijar	••	- 1	11		23	
,,		18	May		10	Lag Beomer
Sivau		1	,,		22	
,,		6	,,		27	Pentecost Holidays, Feast of Weeks*
,,		7			28	Second day *
Tamuz			June		21	Socona day
	••		July	••	7	Fast: Seizure of the Temple by Titus*
Ab"		í		••	20	rast: Seizure of the Temple by Titus*
	••	9	"			Frank Deskins Man of the Man 1 *
Eluï		-	, , , , , , , , , , , , , , , , , , ,		28	Fast: Destruction of the Temple*
Liui	• •	1	Augnst	••	19	
,,		7			25	Dedication of the Walls by Nehemiah
"		17	September	• •	4	Expulsion of the Greeks
5610						
Tisri	••	1	,,		17	Feast for the New Year*
"		2	,,		18	Second Feast for the New Year*
,,		3	,,		19	Fast of Gedaliah
**		10	,,		26	Fast of the Reconciliation or Atonement*
))		15	October		1	Feast of the Huts or Tabernacles*
"		16			2	Second Feast of the Tabernacles*
,,		21	"		7	Feast of Palms or Branches*
		22	, ,,		8	End of the Hut, or Congregation Feast*
19		23	,,,		9	Rejulcing for the discovery of the Lord*
Marchesvan		1	"		17	rejoicing for the discovery of the Lord*
Kislev			37			
Kisiev	••		November	••	16	a a
771.272			December	••	10	
Tcbeth	••	1	,,		16	
,,		10	29		25	Fast for the Siege of Jerusalem
The American						.4

The Anniversaries marked with an asterisk (*) are to be strictly observed. The Jewish Year generally contains 354 days, or 12 Lunations of the Moon; but, in a cycle of 19 years, an intercalary month (Veadar) is 7 times introduced, for the purpose of rendering the average duration of the year quite or nearly correct.

MOHAMMEDAN CALENDAR FOR THE YEAR 1849.

megin;	1200,	Monarrem I (New Year	r) falls on November 27, 1848.
7.	,,	Safar I ,,	" December 27, "
,,	,,	Rebi-el-Awwel 1 ,,	, January 25, 1849.
,,	,,	Rebi-el-Accher 1 ,,	" February 24, "
,,	,,	Dschemådi-el-Awwel l	" March 25, "
,,	"	Dschemådi-el-Accher 1	" April 24,
,,	,,	Redschebl "	" May 23,
,,	,,	Schaban I ,,	" June 22, "
,,	"	Ramadan 1 { Month of Abs	tinence) Tules Of
,,	,,	Schewâl I "	,, August 20, ,,
,,	,,	Dsii'l-Kade I ,,	., September 18, ,,
,,	,,	Dsú'l-hedsché l "	" October 18,
Hegiri;	1266.	Moharrem ,,	" November 17, "
,,	,,	Safar 1	" December 17,
(For		s on the Mohammedan year, se	

SIGNS OF THE ZODIAC.

Spring Signs	{	1 ↑ 2 5 3 Ⅱ	Aries Tanrus Geminl	Autumn Signs	{	7 8 9	<u>~</u> ₩	Libra Scorpio Sagittarius
Summer Signs	{	4 55 5 Ω 6 mg	Cancer Leo Virgo	Winter Signs	{	10 11 12	₩ ₩ ¥	Capricornus Aquarius Pisces

FIXED AND MOVEABLE FESTIVALS, ANNIVERSA-

TOTAL	113, 000.
Epiphany Jan. (Pentecost-Whit Sunday 27
Martyrdom of King Charles I. ,, 30	Restoration of King Chas. II. 29
Septuagesima Sunday Feb. 4	Trinity Sunday June 3
Quinquagesima—Shrove Sun. , 18	Corpus Christi , 7
Ash Wednesday , 21	
Quadragesima-1st Sunday?	Decalemention 01
in Lent	St. John Baptist—Midsum-
St. David March 1	mar Dor
St. Patrick , 17	Birth of Dowager Queen Adoloido
Annunciation-Lady Day ,, 25	Adelaide
Palm Sunday April 1	St. Michael-Michaelmas Day Sep. 29
Good Friday ,,	Gunpowder Plot Nov. 5
EASTER SUNDAY , 8	Birth of Prince of Wales ,, 9
Low Sunday ,, 15	Birth of Priuce Alkert ,, 26
St. George ,, 23	St. Andrew ,, 30
Rogation Sunday May 13	
Ascension Day-Holy Thursday ,, 17	St. Thomas ,, 21
Birth of Queen Vlctoria ,, 24	Christmas Day ,, 25

BEGINNING OF THE SEASONS, 1849.

					D.	я.	ы.
The Sun enters	Capricornus	(Winter begins)	1848,	Dec.	21	4	- 0
,,	Aries	(Spring begins)	1849,	March	20	5	13
,,	Cancer	(Summer begins)	13	June	21	2	8
,,		(Autumn begins)	,,	Sept.	22	16	3
**	Capricornus	(Winter begins)	"	Dec.	21	9	42

DURATION OF THE SEASONS, AND THE YEAR 1849.

The Sun will be in the	Wiuter	signs			Day	s l	Hou	r 1.	3 M	linu	tes
,,	Spring	,,		92			**	5		"	
"	Summer	,,		93			,,	5		,,	
,,	Autumn	"		89		17	,,	3	9	",	,,
The Sun will be on the				м.							
Equator and going N.	1849, Mar	ch 20	5	13,	his	declin	ation	being	0	0	0
The Sun will reach his greatest N. declination	1849, Jun	e 21	2	8,	his	N dec	lin. 1	eing	23	27	23
The Sun will be on the Equator, and going S.	1849, Sept	. 22	16	3,	his	declin	ation	being	0	0	0
The Sun will be at his greatest S. declination	1849, Dec.	. 21	9	42,	his	S. dec	llu. b	eing	23	27	23

The Sun will be North of the Equator (Spring and Snmmer) 186 days 10 hours 50 minutes. The Sun will be South of the Equator (Winter and Autnmn) 178 days 18 hours

52 minutes. The length of the tropical year, commencing at the Winter Solstice 1848, and terminating at the Winter Solstice 1849, is 365 days 5 hours 42 minutes.

ASTRONOMICAL SYMBOLS AND ABBREVIATIONS EXPLAINED.

⊙ The Snn		o Degrees
New Moon	↑ Astrea	' Minutes of Arc
)) First Quarter of Moon	& Flora	" Seconds of Arc
O Full Moon	& Metis	D. Days
(Last Quarter of Moon	2 Jupiter	H. Hours
(Last Quarter of Moon Ø Mercury	h Saturn	M. Minutes of Time
9 Venus	H Uranus	S. Seconds of Time
e or 5 The Earth	Ψ Neptune	⊙ Sunday
d Mars	Ascending Node)) Monday
Nesta	93 Descending Node	of Tuesday
* Juno	N. North	♥ Wednesday
Pallas	E. East	24 Thursday
2 Ceres	S. South	Q Friday
9 Hebe	W. West	h Saturday

The Symbol d Conjunction, or having the same Longitude or Right Ascension.

"Quadrature, or differing 90° in Longitude or Right Ascension.

"Body of the same Longitude or Right Ascension.

"Body of the same Longitude or Right Ascension.

"Body of the same Longitude or Right Ascension.

(For explanation of Astronomical terms, see Almanack of last year.)

LAW TERMS, 1849.

As Settled by Statutes 2 George IV., 1 William IV., cap. 70, s. 6 (passed July 23rd, 1830), and 1 William IV., cap. 3, s. 2 (passed December 23rd, 1830).

zoru, roov, ama r	** *****		cup. o,	o. 2 (Pass				/-
Hilary Term			Begins	Jannary	11		January	31
Easter Term	••	• •	,,	April	15		May	8
Trinity Term	••	••	19	May	22		June	12
Michaelmas	••	••	,,	Nov.	2	"	Nov.	26

UNIVERSITY TERMS, 1849.

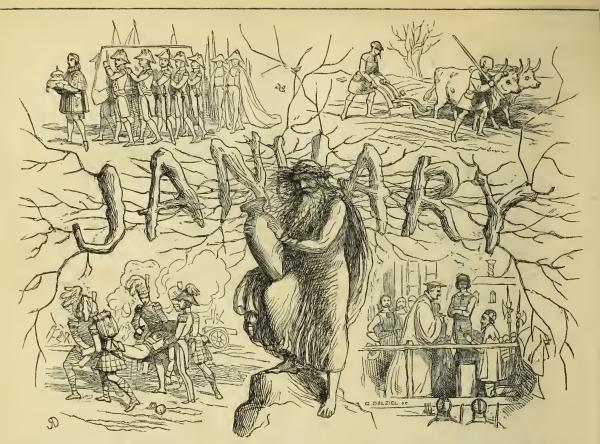
OXFORD.

TE	ERMS.			BEGIN	8.	ENDS.	
Lent Easter Trinity Michaelmas		::	::	January April May October	15 18 30 10	March May July December	31 26 7 17
					The Act	Tuly 2	

CAMBRIDGE.

TERMS.	BEGINS.	DIVIDES.	ENDS.
Lent Easter Michaelmas	Jan. 13 April 18 Oct. 10	Feb. 20, Noon May 27, Midnight Nov. 12, Midnight	March 30 July 6 Dec. 16

The Commencement. July 3.



-			II SUN.					1	MOG)N		DURATION OF M	HIGH WATER	
	w	ANNIVERSARIES, OC-		1_	South	s.			Sout	ns.	1			AT LONDON BRIDGE
M	1 1	CURRENCES, FES	Rise	Aft	er 12	cht son	SETS.	Rises.	After.	ve ve	SETS.	Before Sunrise	After Sunset.	The state of the s
D	D	TIVALS, &c.		o'c	lock.	Height above horizon	22.0	Morning.	noon.	Height above horizon	Afternoon	Before Sunrise	O'Clock. 6h, 8h, 10h,	Merning. Afternoon a.g
	·		н, м	н.	M.	Deg.	I. M.	H. M.	н. м.	Deg.	н. м.	2n. 4n. 0n. 1	0H. 0H. 10H.	н. м. н. м.
1	M	Circumcision,	8	8 3	58	$15\frac{1}{2}$	4 0	11 28		$37\frac{1}{2}$	11 48	7		6 10 6 35 1
2	Tu	being the eighth day after the nativity of	8	$8 \mid 4$	26	$15\frac{1}{2}$	4 1	11 54	6 22		Morning.			6 58 7 25 2
3		Jesus Christ, who was circumcised when the	Q	8 4	54	153	4 2	Afternoor	7 14	461	1 1	9		7 55 8 25 3
4		eight days were accom- plished, according to the		8 5	21	153	4 3	0 55	8 9	$50\frac{1}{3}$	2 18	10		9 2 9 36 4
5		law of the Jews.		8 5	48	16	4 4	1 32	9 6	-00	3 34			10 15 10 54 5
6	1 - 1	Epiphany. Tw.D	8	7 6	14	16	$\frac{1}{4}$ $\frac{1}{6}$	2 17	10 6	0	4 50	12		11 30 At Midnight. 6
7	1 1	1st S. aft Epiph.	8	7 6	40	161	1 7	$\begin{bmatrix} 2 & 17 \\ 3 & 12 \end{bmatrix}$	11 5	561	6 0	13		No Tide. 0 32 7
8		Lucian. Pl. Mon.	8	7 7	6	161	4 8	4 14	Morning	~ ~ 2	7 9			1 0 1 30 8
1		burnt 1838		6 7	, 21	161	4 0	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1 0 8	1 7	1 / 4			1 55 2 20 9
9	1	L .		- 1	, 55	161		$\begin{vmatrix} 3 & 24 \\ 6 & 36 \end{vmatrix}$		7 6 0 9	8 41			2 45 3 10 10
10		Royal Exchange		6 7	99	102	4 10			1004				3 35 3 55 11
11		Hilary Term beg.	8	5 8		104	4 11	7 48	ł	1 1	9 17			4 17 4 40 12
12		PM.	10	4 8	_	17	4 13	9 (1 43	9 48	19		5 0 5 20 13
13		Camb. Term beg.		3 9		17	4 14	10 8		3 39	10 15	20		5 40 6 014
14		2D S. aft. Ергрн.		2 9		174	4 16	11 16		$ 34\frac{3}{4}$	10 39	21		6 20 6 45 15
	$ \mathbf{M} $	Ox. Term begins	8	2 9		$17\frac{1}{2}$	4 18	Morning		$130\frac{3}{4}$	11 4			
16	Tu	Alpha Arietis souths at 6h.	0	1 10	8	175	4 19	0 20	_	$3 27\frac{1}{4}$	11 27	17/1		7 5 7 25 16
17	\mathbf{W}	Alpha Ceti souths at 7h, 6m,	8	0 10	28	173	4 21	1 23	6 42	$2 24\frac{1}{4}$	11 53			7 50 8 2017
18	T _H	Prisca. Old T. D.	7 5	910	48	18	4 22	2 20	6 7 20	$5 21rac{3}{4}$	Afternoon	24		8 55 9 30 18
19	\mathbf{F}	Copernic. b. 1472	7 5	811	6	$18\frac{1}{4}$	4 24	3 20	8 1	1 20	0 51	25 26		10 5 10 40 19
20	S	St. Fabian	7 5	7 11	24	$18\frac{1}{2}$	4 26	4 23	8 58	3 19	1 28	20 27		11 15 11 50 20
21	S	3DS. aft. Ерірн.	7 5	6 11	41	183	4 27	5 18	3.9 4	5 19	2 11	2/		No Tide. 0 20 21
22		St. Vincent		5 1	1 57	19	4 29	6 8	3 10 34	$4 19\frac{3}{2}$	3 1	28		0 44 1 7 22
23	-1 .	Aldeharan souths at 8h. 15m.	7 5	4 19	2 13	191	4 31	6 59	211 2	1	3 59	29		1 28 1 50 23
24		Pitt died 1806	7 5	3 12	2 28	191	4 33	7 34	1 Afternoo	n 21	5 2			2 10 2 27 24
	Тн	Convers. St. Paul	7 5	111	2 42	191	4 35	1		$3 24\frac{1}{2}$	6 44			2 45 3 5 25
20	- 1	Capella souths at 8h. 42m	111	0 1		- Z	4 37	8 4		2 27	7 14	2		3 20 3 40 26
27		Sirius souths at 10h. 10m		8 13	_	204	4 39		$7 \ 2 \ 4$	1313	8 25			3 57 4 15 27
28		4тн. S. aft Epip.	7 4		3 19	$ \frac{20}{20} $	4 40	9 3	4	0.36°	9 37	,		4 35 4 50 28
				15 13	$\frac{1}{3}$ $\frac{1}{2}$	1-04	4 41	10	1 4 20	,				1 5 10 5 30 29
	9 M	[Charles I.			9 90	204	4 41	10 20		0 40	Morning	(6)		5 50 6 10 30
30	1	Martyr, of King		14 13	0 46	011	4 43		5 10					6 35 7 0 31
3	IW	Hilary Term ends	4	13 13	3 48	3 214	4 45	10 5	9 6	3 49	0 4			100011 001
-														

JANUARY.

THE SUN is in the sign Capricornus (the Goat) till the 20th, on which day, at 2h. 2lm. A.M., he enters the sign Aquarius (the Water-hearer). On the 2nd day, at 2h. 6m. A.M., he is the nearest to the Earth during the year, and is distant 93,407,000 miles. He rises on the 1st, at 2°S. of the S.E. hy E.; on the 15th, at the S.E. hy E.; and on the last day, at 5°\frac{1}{2}\$ S. of the E.S.E. He sets on the same days at 2°S. of S.W. by W., at the S.W. by W. and at 5°\frac{1}{2}\$ S. of 5 C.W. by W. at the S.W. by Doints of the horizon respectively. His time of southing, in common clock time, and bits height in degrees at the same time, are shown every day on the opposite and his height in degrees at the same time, are shown every day on the opposite

page.
The Moon is in the constellation Cetus on the 1st; on the boundaries of Cetus and Pisces on the 2nd; in that of Cetus again on the 3rd and 4th; in Taurus on the 5th and 6th; on the 7th, at noon, she passes into Gemini; and on the 9th into Cancer; on the 11th and 12th she is in Leo; from the 13th to the 16th, in Virgo; on the 17th and 18th, in Libra; 19th and 20th, in Ophiuchus; on the 21st and 22nd, on the houndaries of Aquila and Sagittarius; on the 23rd, in Capricornus; the 25th and 26th, in Aquarius; in Pisces on the 27th and 28th; on the 29th and 30th, skirting Pisces and Cetus; and in Cetus on the 31st Cetus on the 31st.

She rises between the times of sun-setting and sun-rising, or during the night, from the 8th to the 24th; and during the day, at the other times. She sets after the Sun and before he rises till the 9th, and again after the 24th, and during the day between the 10th and the 23rd. For the actual times every day, see opposite

She is on the Equator on the 14th aud on the 28th. Her time of southing, in common clock time, and her height in degrees at the same time, are given for

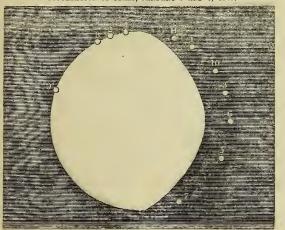
every day on the opposite page.

She is near Uranus on the 2nd; Jupiter, on the 11h; Mars, on the 21st; Mercury, on the 25th; Venus and Saturn, on the 28th; and Uranus, again on the 29th. She is full on the 8th, and new on the 24th; but without an Eclipse at hoth

times. Her times of change are given helow.

On January 5th and 6th several stars are occulted by the Moon; the disappearances will take place at the dark limb of the Moon, and the re-appearances will take place at the the place shown in the annexed diagram, which is drawn for an inverting telescope.

OCCULTATION OF STARS, JANUARY 5 AND 6, 1849.

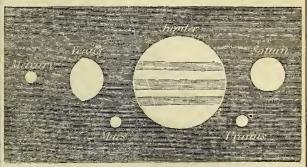


48 Tauri { will	l disappear the place	l at 5	н. 8	м. 35	P. M.	and re-appear	2 at 5	я.	м. 11	P. M.
Gamma Tauri	marked) 3 at 5	10	30		(marked	4 at 5	11	97	
Theta I Tauri	"	5 at 6				"	8 at 6			
Theta 2 Tauri	,,	6 at 6	2	47	,,	"	V at 6	3	26	,,
A star 5½ mag. in Taurus	} ,,	7 at 6	3	29	"	19	9 at 6	4	16	,,
85 Tauri	, ,,	10 at 6	4	12	19	12	11 at 6	4	27	29

MERCURY, from the 1st to the 13th, is in the constellation Sagittarius; between the 14th and 28th in that of Capricornus; and in Aquarius after the 28th

He is an evening star from the 15th. He rises on the 1st, six minutes before He is an evening star from the 15th. He rises on the 1st, six minntes before the Sun; on the 3rd, at the same time as the Sun; and on the last day, 40m. after the Sun. He sets on the 12th at 1m., on the 20th at 34m., and on the last day at 1h. 24m. after the Sun sets; and, therefore, at the end of the month he is favourably situated for observation after sunset. He rises on the 1st at 6° S. of S.E. by E.; on the 18th, at S.E. by E.; and on the 30th, at E.S.E. He sets on the 1st at 6° S. of S.W. by W.; on the 18th, at S.W. by W.; and on the last day, at W.S.W. He is moving easiward among the stars throughout the month; is in superior conjunction with the Sun on the 8th; and is near the Moon on the 25th.

RELATIVE APPEARANCE OF THE PLANETS IN JANUARY, 1849.



Venus is in the constellation Capricornus from the 1st to the 3rd; in that of Aquarius, from the 4th to the 2tst; and in that of Pisces, from the 22md.

She is an evening star; and sets on the 1st at 7h. 28m. P.M., at 3° S. of W. S.W.; ou the 6th, at 7h. 48m. P.M., at the W.S.W.; ou the 21st, at 8h.28m. P.M., at the W. hy S.; and on the 31st, at 8b. 57m. P.M., at 3° S. of W. She is moving eastward among the stars during the month; is near the Moon on the 28th, and Saturn on the 29th.

Mars is in the constellation Ophiuchus till the 16th; and in Sagittarius from

He is a morning star, and is visible a short time before sunrise. He rises on the 1st at 6h. 23m. a.m., at 3°\frac{1}{4}\$. So f S.E. by E.; and on the last day, at 6h. 6m. A.m., at 4°\frac{1}{4}\$ S. of the same point of the horizon. His times of southing are given helow; and he sets hetween 1h. and 2h. p.m. He is moving eastward among the stars; and is near the Moon on the 21st.

JUPITER is in the constellation Leo, and is visible throughout the night. He rises on the 1st at 7h. 30m. r.m., at 2° N. of E.N.E.; and on the last day, at 5h. 15m. r.m., at 3° ½ N. of the same point of the horizon. He souths at an allitude of 53° ½ on the 1st, and of 54° ½ on the 31st; and he sets between 8h. A.M. and 10h. A.M.

He is moving slowly westward among the stars, and is near the Moon on the

JUPITER'S SATELLITES.—The Immersions of the 1st, 2nd, and 3rd are visible, and disappear at the distance of one-fourth; less than one-half; and greater than one-half of his diameter from him respectively. On the 14th, at 8h. 50m., an Emersion of the 4th takes place, and it will re-appear at the distance of an eighth part of the diameter. These Eclipses will appear to take place on the right side of the planet through a telescope that does not invert, and on the left side as seen through one that does invert.

SATURN is in the constellation Pisces throughout the month.

He is an evening star, and sets near W. by S. on every day: on the 1st, at 10h. 15m. P.M.; on the 15th, at 9h. 26m. P.M.; and on the 3ist, at 8h. 31m. P.M.

He moves slowly eastward among the stars; and is near the Moon on the 28th, and Venus on the 29th.

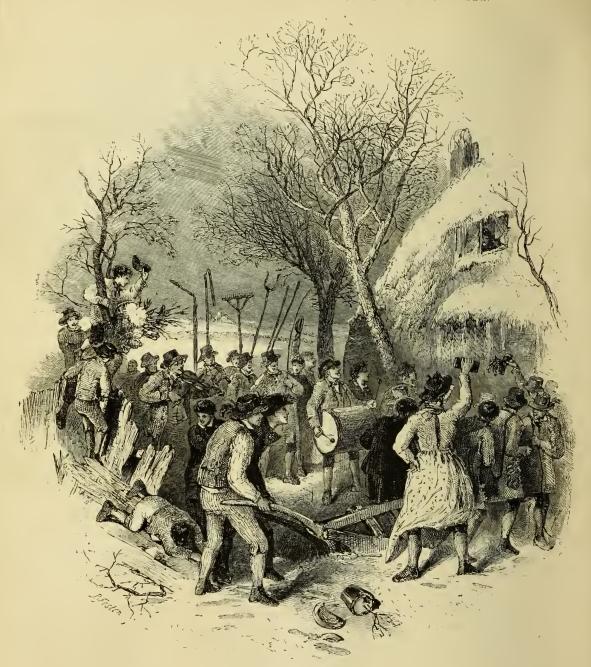
URANUS is in the constellation Pisces throughout the year. He sets near the W. by N.: on the 1st at 1h. 2m. A.M.; and on the last day, at 11h. 7m. P.M. He souths on the 15th, at 5h. 29m. P.M., at an altitude of 45°. He moves eastward among the stars; and is near the Moon on the 2nd, and again on

of the nth.	TIMES	OF THE I	PLANETS THE ME	SOUTHI ERIDIAN.	NG, OR	JUPITER'S S	SATELLITES.	OCCULTATIO	ONS	OF STARS BY THE MO	ON.
Days	Mercury. Morning.		Mars. Morning.	Jupiter. Morning.	Saturn. Afternoon	Eclip 1st. Sat. Immersion.	ses of 2nd Sat. Immersion.	Names of the Stars.	Magni-	Times of disappearance and re-appearance of the Star.	At the dark or bright limb of the Moon.
1 6 11 16 21 26 31	H. M. 11 45 Aftern. 0 17 0 33 0 49 1 3 1 16	H. M. 2 50 2 53 2 56 2 59 3 1 3 2 3 3	H. M. 10 19 10 15 10 12 10 8 10 4 10 1 9 57	H. M. 2 55 2 33 2 12 1 50 1 28 1 6 0 44	H. M. 4 42 4 23 4 5 3 47 3 29 3 11 2 53	n. H. M. 1 11 5 P.M. 7 6 30 A.M. 9 0 59 A.M. 16 2 52 A.M. 17 9 21 P.M. 23 4 46 A.M. 24 11 14 P.M. 30 6 39 A.M.	n. H. M. 1 8 57 P.M. 8 11 33 P.M. 16 2 10 A.M. 23 4 46 A.M. 3rd. Sat. 17 8- 11 P.M. 25 0 10 A.M.	Xi¹ Ceti 1il Tauri Tau Leonis 38 Virginis For occultations on J	5 6 4 6 an. 5	n. H. M. { 3 5 46 P.M. { 3 6 38 P.M. { 6 11 48 P.M. } 7 0 37 A.M. { 13 8 12 A.M. { 15 0 5 A.M. } 15 1 7 A.M. and Jan. 6, see ahove.	Dark Bright Dark Bright Bright Dark Bright Dark

TIMES OF CHANGES OF THE MOON,	the the			RIGH	r ASCEN	ISIONS A	ND DEC	LINATIO	NS OF T	HE PLA	NETS.		
And when she is at her greatest distance (Apo-	of	MERC	URY.	VEN	IUS.	MA	RS.	JUPI	TER.	SAT	URN.	URA	NUS.
gee), or her least distance (Perigee), from the Earth in each Lunation.	Days	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North.
FIRST QUARTER . 2D. 7H. 38M. A.M. FULL MOON . 8 10 50 P.M. LAST QUARTER . 16 6 54 A.M. NEW MOON . 24 10 3 A.M. FIRST QUARTER . 31 4 43 P.M. PERIGEE 7 3 0 APOGEE 18 at Midnight	6 11 16 21	18h. 29m 19 5 19 40 20 16 20 52 21 26		21h.34m 21 57 22 20 22 42 23 3 23 24	16° 22′ 14 15 11 59 9 36 7 7 4 34	17h. 3m 17 19 17 35 17 51 18 7 18 23	23° 6′ 23 27 23 43 23 53 23 57 23 54	9h.37m 9 36 9 34 9 32 9 29 9 27	15 19 15 29 15 40 15 52	23h, 27m 23 28 23 29 23 31 23 33 23 34	5° 57′ 5 48 5 38 5 27 5 16 5 4	lh. 9m 1 9 1 9 1 9 1 10 1 10	6° 38′ 6 39 6 40 6 42 6 45 6 47

JANUARY.-PLOUGH MONDAY.

THE DESCRIPTIONS OF THE TWELVE MONTHS BY THOMAS MILLER.



He ploughs the hills and ploughs the dale, He ploughs through field and fallow: Who does not wish the Ploughman well, Is but a sorry fellow.—Old Ballad.

Many of the old games, and masques, and mummings, which were in accordance with the simple habits of our homely forefathers, have long since passod away. A few only remain, out of those which it was their delight and amusement to witness; and even these are shorn of their aucient splendour; for, though still picturesque, they have a faded look, and seem no more in keeping with the manners and customs of the present day, than the murrey-coloured coats, and slashed doublets, and trunk hose would be, if dragged forth from the old oaker recesses in which they have lain, disturbed only by the moth for many a long year, and worn again by the present generation. Such as have survived the stern mandates of Cromwell, lived through the Restoration of Charles, and withstood all the stormy revolutions which at last settled down, when the House of Hanover was securely seated upon the throne, we shall occasionally glance at in our descriptious of the months; for they are still within the aucient boundary-line which every year is rapidly cutting up, and into the opening of which the steam-boats and rallroads are entering, and overturning nearly all that is picturesque and primitive, that has for centuries given such life and beauty the is picturesque and primitive, that has for centuries given such life and beauty to the rural landscapes of England.

January, with its short days and long nights, though it still comes as of old, with frost, and snow, and cold, and darkness, brings with it once a year its merry Plough Monday, and in a few out-of-the-way country places the village street is all astir with the little crowd of gaping rustice, just as it was, except for the changes in costume and architecture, three or four centuries ago. The old fiddler, who dates every incident in his life from the many country wakes, feasts, and statutes he has attended, is again in requisition, although the snow hies deep upon the ground; the drum, which only sounds at the club feast, or on such occasions as these, is again dragged from its hiding-place; and sometimes the old-fashioned pipe and tabor, which have been blowu and beaten by the descendants of the same family, through many generatious, are called in to awaken the sleeping echoes of winter. You hear the noisy group long before they heave into sight along the winding lane, engirded with its high and leafless hedges—green only where the vy trails, or the prickly holly shoots up; they are announced by the loud huzzas which rend the air, and are followed by all the loiterers who have congregated from the villages for miles around.

Heralding the way, come the healthy-looking round chubhy-faced country lads,

waving their hats and caps, regardless of the cold; their heavy boots crunching the snow at every step, and their hard naked hands nearly blue or purple through exposure to the frosty air. They are followed by pipe and tabor, fiddle and drun. Then appears a strong healthy-looking ploughman, with his heavy ankle boots, worsted stockings, stout corduroy breeches, and thick plush waist-coat, over which he wears a gown, borrowed for the occasion of Nanny or Molly, and the skirt of which he generally tucks up under his waistcoat until he enters the village, to keep it from draggling; and thus arrayed, with bonnet and cap on the vilage, to keep it from cragging; and thus alrayed, with bonnet aduced head, he comes dancing along, about as gracefully as a brown shaggy bear, and rathing the money-box, which he carries in his hand, at every step, for he is the Betsy, so famous in the olden time as the clief figurante on a Plough Monday. Next follows the plough, drawn by ten or a dozen stout countrymeu, by ropes either thrown over their shoulders or fastened around their waists, while their lats or white smick-frocks are decorated with ribbons of almost all colours, amid which are placed bunches of ears of corn; he who guides the plough being ornamented like another Ceres, and, doubtless, like her, intended to represent the em-blem of plenty. Next appear the threshers with their flails, and reapers with their hooks, waggoners with long whips daugling over their shoulders; bringing before the eye the whole procession of harvest, from the plougber, the sower, the resper, the thresher, down to the dusty miller, who has covered himself with an extra coat of meal for the occasion, and has come to take toll out of the process While writing, the scene rises before the eye as distinctly as when in our boyish

days, above twenty years ago, we stood a happy spectator, regardless of Winter-

Cloathed all in freiza.
Chattering his teeth for cold, that did him chill;
Whilst on his boary beard his breath did freeze.—SPENSER.

We again see the big farm-house, with its ivy-covered porch, in which the jolly farmer, with his top-boots, blue coat, and pipe in mouth, stood beside his buxom aud merry-faced wife, looking on with as much apparent pleasure as the little children, who rested with their hands on the to most and frost-covered bar of the gate which they had climbed. What he dropped into "Betsy" the ploughman's box, fell with a heavy sound, causing the bonneted bearer to rattle it with extra force, and to ent a variety of most unlady-like capers. Then came the great brown jug, piled high with foaming mighty ale, which seemed quite a load even for the strong arms of the stout dairymaid who bore it; little Jack, the farmer's boy, followed with large drinking-horns, and a basket filled with such hinge hunches of bread and cheese as showed that the worthy giver knew right well how to measure a ploughman's appetite. Then pipe and tabor, and drinm and violin, were mute for several minutes, and all the sound heard, excepting an occasional huzza, was like that of a drawn horses granding and feeding together. The increase area for several minutes, and all the sound heard, excepting an occasional huzza, was like that of a dozen horses crunching and feeding together. The jug was again refilled and emptied; and so they passed on from house to honse until they at last came to one where a noted miser resided. They knocked at the door—there was no answer. "Betsy" rattled his box louder that ever, but no one came; drum, tabor, pipe, and violin thundered and screamed in vain; buzza after huzza was sent forth by the assembled crowd, but excepting a stealthy peep from behind the blind, and which would have cost the waiting-maid her place had she been discovered by the old curmudgeon, no other sign of life appeared within. "Gee-ho! Come-up!" exclaimed the man who held the stilts or handles of the plough, and in a moment the deep bright share was into the ground: backwards and forwards it went, cutting deeper, and the men pulling stronger at every furrow they made, until the whole lawn at the front of the miser's house lay brown, bare, and ridgy as a newly-ploughed field.

When the mischief was done the old miser made his appearance, and threatened the ploughman with law, imprisonment, transportation; but no one seemed to advocate his cause. It was an old custom thus, to plough up the ground at the front of the doors of those who gave not "largess" on Plough Monday; nor do we remember a single instance of prosecution for the mischelled in the place of the plough and had been a single instance of prosecution for the mischelled in the place of the place are the place of the place are the place of the place of the place are the place of the place are the place of the place are the place of the place are the place of

abolical; nor do we remember a single instance of prosecution for the mis-demeanour. Such abuses, however, we doubt not, have been instrumental in abolishing these old and useless customs. What we have here presented is a faithful portraiture of rural England only twenty years ago; and there are still, we believe, a few green quiet corners in our island, where Plough Monday is kept up in the present day. We have here preserved the outline of a faint and faded picture, the rich colouring of which began to decay from the very hour when Cromwell and his Roundheads shut up the ancient gallery of old English amusements. It was opened again at the restoration of Charles; but the damp and the mildew had settled down upon it. A new race of men had spring up, and a nighty change, which is still advancing, began to show itself throughout the land—the merry England of our forefathers was growing into the working and thinking

England in which we now live.

We now live.

The race of yore,
Who danced our infancy upon their knee,
And told our marvell ng bot hood legends store,
Of their strange veninres happ'd by land or sea;
How are they blotted from the things that be!—SCOTT.

Few, unless they are well versed in geology, would dream of the appearance rew, unless they are well versed in geology, would dream of the appearance which our island presented in hose early years that have passed away unnumbered by man, but which have left traces of their existence beneath thills and vallies we daily tread. The landscape, which at this season of the year is leafless, and sometimes buried in its winding-sheet of snow, was thousands of years ago adorned with flowers, and fruits, and trees which now ouly blossom and ripeu, and wave in the far-off sunny lands of the East. Then the huge himporterms well-ward in an entire transfer that the reserved the reserved to the reserved and ripen, and wave in the far-off sunuy lands of the East. Then the huge hippopotamus wallowed in our rivers, and the mammoth and the mastodon shook those old (and ages ago buried) forests beneath their tread. In the excavations of railways, in the very heart of our ancient hills, and in the deep beds of our beautiful rivers, do we flud the remains of these extinct monsters. The dam and its off-pring sometimes buried side by side, a convincing proof that here the young was once bred, lived, and died. Amid the giant ferms of this early would, which have dwindled down to the knee-deep bracken through which we now tread, did the striped and sabre-toothed tiger couch, ages before his anniv growl ever fell upon any human ear. Then the great-gay hear went angry growl over fell upon any human ear. Then the great-cave bear went prowling about our island; and herds of wolves and jackals pursued the maned and shaggy hison through the forest fastnesses. The huge elk, whose remains have been discovered, and the span of whose antiers from the tip of each horn have been discovered, and the span or whose amous from the up of each norm was above thirteen teet, fed upon our hills, and stooped down to drink by the sides of our rivers, in those undated ages; for the shadow of man had not as yet been mirrored upon the face of those waters. Birds, whose gaudy plumage is now only to be seen in tropical forests, then plumed themselves in the surshine on the boughs of such trees as never again threw their green shadows over that deep-buried and untrodden soil. Then our island was houseless, our seas mastless, nor had the print of any hnman foot as yet indented the sand upon our shore. Such a knowledge as this, wherever we may wander, never causes us to feel solitary; to vary a few lines by Keats:

though Keen fitful guets are whispering here and there, Among the busbes, half leafless and dry And stars look very cold about the sky, And we had usny miles on foot to faire:

Yet felt we little of the c ld bleak air, Or of the dead leaves rustling dresr'ly; Or of those silver lamps that burnt on high, Or of the distance from home's pleasant lair

Wild, silent, and uninhabited have we found places which we have traversed in England during winter in our own day—the far-extending cliff country of Lincolnshire, backed by the high and villageless wold, that seemed in the distance Lincolnshire, backed by the high and villageless wold, that seemed in the distance to go climbing up until it was lost in the grey and leaden-coloured sky. On the huge table-lands which ascended, ledge above ledge, telling where for ages the locked-up waters had remained stationary, we have seen the snow lie white, deep, silont, and untrodden, just as it had been blown over the broad and shelterless vallies, and left there, height above height, like alp on alp. The flocks of sheep, that picked up a scanty subsistence in summer on the strup barriers of dried-up oceans, had been driven miles away by the herdsman into the lowlands; and thus all along the ridges of those high and stlent wolds no living object, excepting some solitary bird, was seen to move. Neither hedge, nor shed, nor fence were there on that high and heaving ridge of wild hills, nor aught which bore sign or imprint of the hand of man. The few naked trees that hung leaning over the steep precipice-like ledges, looked as if they had bees the steep that they had been different than the steep precipice-like ledges, looked as if they had been the steep precipice-like ledges. hung leaning over the steep precipice-like ledges, looked as if they had been washed there ages ago, and left motionless one above the other by the sudden subsiding of those mighty waters. The gathering night, and the blinding snow-storm, with the howling wind blowing full in his face, would even now make the stout heart of a stranger quail, if, nnacquainted with the country, he found himself there alone in the dusky close of a cold brief January day.

Along the woods, along the moorisb fens, Sighs the sad genus of the coming storm; And up among the loose disjointed clifts, And fractored mountains wild, the brawling brook And cave presageful, send a hollow mosn, Resounding long in list'ning fancy's ear —THOMSON.

Descending from those heights, we came to the banks of old lonely rivers, whose waters were only ploughed by the keel of the fowler's boat, while he, stretched out at the bottom, glided in silence along, between the high armies of tall and tufted reeds, and sharp-edged water-flags, that glittered like scimitars through the hoar-frost; and tall naked rows of osiers whose stocks or roots were buried beneath the snow, until he arrived within shot of the whole flock of wild found where recriming me this wadden like an apparition by buried beneath the snow, until he arrived within shot of the whole firck of wild fowl, when, springing up on the sudden, like an apparition, bang went both his barrels in a moment, making a sudden plash npon the surface of the water, which the next minute was covered with the feathered bodies of the wounded and the slain. You saw the smoke rolling away like a silvery cloud above the heads of the tufted bulrushes—heard the echees of his gun die along the hill-side—just caught the low lapping of the water as it was disturbed by the motion of his boat—then, saving the wind that whistled over the frozeu celge and blew bleakly through the naked willows, all again was still. You wander along by the road-side spring, which is never frozen over, and see the little wagtail striding about, the very smallest of all our birds, which appears not to have its legs tied, which looks as if it scorned to go hopping along like many of the feathered race, but boldly lifts up one foot after the other, and struts, and looks around, as if it were marching at the head of a whole regiment to wagtails. True to the country in which he was bred, he disdins to

of wagtails. True to the country in which he was bred, he disdoins to number himself among the feathered gentry who hurry off, long before the approach of winter, to seek a warmer climate; but, like his companion the robin, he braves our severest seasons, and trusting to chance and his own rôbin, he braves our severest seasons, and trasting to chance and his own industry, picks up his living as he best can, about spring-heads and water-courses, where a few insects are still to be found; and so between hunting for a living, sleeping, and amnsing himself, he wiles away the dull winter, until spring throws her primrose-coloured garment over the sky.

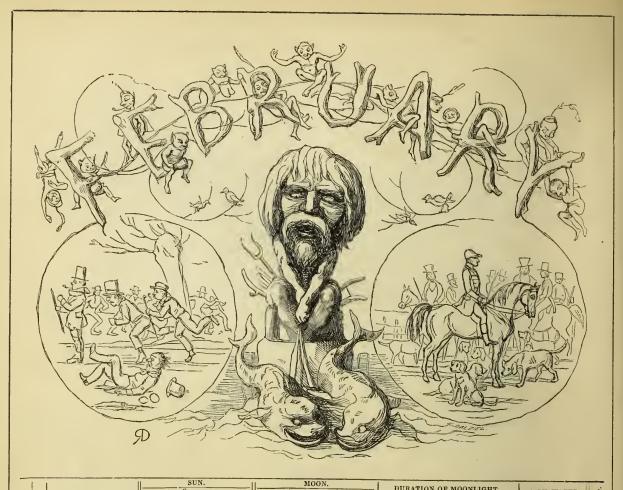
The only sound, except the wind, that appears to give a voice to the wintry landscape, is the murmuring of the river: when that is frozen over and silent, it seems as if the judse of nature had ceased to beat—as if the last stir of life was motionless—earthed as in a grave; that Hope had at last sunk down in very desnair—she who had so long

despair—she who had so long

Patient with bow'd head silent stood, And on her golden anchor leant, And watch'd below the sleeping flood, Where winter, 'mid the dreariment,

Half-buried in the drifted enow, Lsy sleeping on the frozen ground; Unheeding how the wind did blow, Bitter and bleak on all around.





M	w	ANNIVERSARIES, OC-	-		S	OUTS	8.		- -		1	SHILE	15.	1		DU	RATION	OF MO	ONLIG	HT.	HIC	GH V	VATER	# F
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	1	TIVALS, &c.	-		o'el	ock.	Height above Horizot	2210	Mo	rning		011.	Height above Horizon	Mori	нing.	J		Moon's			Morni	ing I	Afternoon	D ag
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7	W	Capella souths 7h. 50m., P.M.	7	30	14	27	$23\frac{1}{4}$	4 5	3 5	24	Mon	rning.	49	7	13				1/4			48	2 10	38
8	TH	Half-Quarter	7	29	14	30	$23\frac{1}{2}$	5	$0 \parallel \epsilon$	37	0	40	$45\frac{1}{4}$	7	45			15			2	35	3 0	39
9	$ \mathbf{F} $	Rigel souths 5h. 7m. P.M.	7	27	14	31	24	5	2 ;	47	1	31	41	8	14			16.			3	20	3 40	40
10	S	Q. Vic. mar. 1840	7	26	14	32	241	5	4 8	57	2	20	$36\frac{3}{4}$	8	42			17			3	58	4 17	41
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16		Pollux souths 9h, 49m, P.M.	1/7	11	14	21	261	5 1	1 6	2 10	6	51	101	11	27			23			7	50	8 20	47
17	s	Alpha Orionis Souths at 7h.	7	10	14	17	261	5 1		2 7	7	38	199	Aften			-	23 24			6	0	9 40	48
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28	W	Regulus souths at 11h.25m.	6	50	12	47	$30\frac{1}{2}$	5 3	6 9	35	4	54	$51\frac{1}{2}$	Morn	ing.						5	30	5 52	159
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FEBRUARY.

THE SUN is in the sign Aquarius till the 18th, on which day, at 5h. 16m. P.M., he enters the sign Pisces (the Fishes). On the 1st day he is 93,644,000 miles from the Earth. He rises on the 1st, at 5°S. of E.S.E.; on the 11th, at the E.S.E.; and on the 28th, at 1°½ S. of E. by S. He sets on the same days, respectively, at 4°½ S. of W.S.W., near the W.S.W., and at 1°½ S. of W. by S. points of the horizon. His time of southing, in common clock time, and his height in degrees at the same time, are shown every day on the opposite page. He is Fellinged on the 23rd; which Sellings is sample; and wishly in the North

He is Eclipsed on the 23rd; which Eclipse is annular, and visible in the North Pacific Ocean, but not visible here.

Pacific Ocean, but not visible here.

The Moon, on the 1st, passes from Cetus to Taurus; is in Taurus on the 2nd and 3rd; in Gemini on the 4th and 5th; in Cancer on the 6th; in Leo on the 7th, 8th, and 9th; in Virgo from the 10th to the 13th; in Libra on the 13th and 14th; in Ophiuchus on the 15th, 16th, and 17th; on the 18th she is moving on the boundaries of Aquila and Sagittarius; and in the latter constellation on the 19th; in Capricoruns on the 20th; in Aquarius on the 21st, 22nd, and 23rd; in Pisces on the 24th; in Cetus on the 25th; moving on the boundaries of Pisces and Cetus on the 26th; in Cetus again on the 27th; and on the 28th passes into Taurus. passes into Taurus.

She rises after sunset and before sunrise, from the 7th to the 22nd, and after sunrise on the remaining days. She sets before sunrise till the 7th, and after sunset from the 23rd, and during the day from the 8th to the 22nd. For the actual times, see the opposite page.

She is on the Equator on the 10th and again on the 26th. Her time of southing, in common clock time, and her height in degrees at the same time, are given for every day on the opposite page.

in common clock time, and her height in degrees at the same time, are given for every day on the opposite page.

She is near Jupiter on the 7th; Mars, on the 19th; Mercury, on the 23rd; Saturn, on the 24th; Uranus and Venus, on the 26th.

She is full on the 7th, and new on the 23rd. On the latter day an Eclipse of the Sun takes place, but is invisible in Europe.

MERCURY is in the constellation Aquarius throughout the month.

MERCERY is in the constellation Aquarius throughout the month.

He is an evening star till the 25th, and a morning star from the 26th.

Tises after the Sun till the 17th, at the same time as the Sun on the 18th, and 35m. before the Sun on the last day. He sets shith 42m; on the 12th, at 1h. 42m; on the 11th, at 1h. 45m; on the 12th, at 1h. 42m; on the 25th, at 4m; and on the 18th 42m; on the 20th.

THE SATELLITES OF JUPITER, AND THEIR ECLIPSES.

In the annexed diagram, S represents the Sun; and E, E, E, E, E, S, show the Sun sets till the 20th. He sets 2° N. of W.S.W., on the 1st; on the 10th, at W. by S.; and on the 17th, at 7° \(\frac{1}{2} \) S. of W.; and on the 25th, at W. by S. He is moving eastward among the stars; is near Venus on the 23rd, and the Moon on the 26th.

ON THE SATELLITES OF JUPITER, AND THEIR ECLIPSES.

In the annexed diagram, S represents the Sun; and E, E 1, E 2, E 3, show the Sun sets till the 20th. He sets 2° N. of W.S. w., on the 1st, on the 10th, at W. by S. He is moving eastward among the stars; is near Venus on the 23rd, and the Moon on the 26th.

ON THE SATELLITES OF JUPITER, AND THEIR ECLIPSES.

In the annexed diagram, S represents the Sun; and E, E 1, E 2, E 3, show the Sun sets till the 20th. He sets 2° N. of W.S. w., on the 1st, on the 10th, at W. by S. He is moving eastward among the stars; is near Venus on the 23rd, and the Moon on the 25th.

his greatest E. elongation; is near the Moon on the 23rd; and is in inferior conjunction with the Sun on the 24th.

Venus is in the constellation Pisces throughout the month.

She is an evening star; and sets on the 1st at 9h. 0m. p.m.; on the 15th, 9h. 37m. p.m.; and on the last day, at 10h. 8m. p.m.; at the W. on the 4th, and at the W. by N. on the 18th. She is moving eastward among the stars during the month; is near Uranus on the 23rd; and the Moon on the 26th.

Mars is in the constellation Sagittarius till the 24th, and in Capricornus from

the 25th.

He is a morning star; and rises on the 1st at 6h. 4m. A.M., at $4^{\circ}\frac{1}{4}$ S. of S.E. by E.; and on the last day, at 5h. 28m. A.M., at the S.E. by E. points of the horizon. His times of southing are given below; and he sets between 1h. and 2h. P.M. He is moving eastward among the stars, and is near the Moon on the 19th.

JUPITER is in the constellation Leo, and is visible throughout the night. He rises on the 1st at 5h. 10m. P.M., at $3^{\circ}\frac{1}{2}$ N. of E.N.E.; and on the 28th, at 3h. 0m. P.M., at $4^{\circ}\sqrt{4}$ N. of E.N.E.; souths at an altitude of $54^{\circ}\sqrt{2}$ on the 1st, and of 50 nearly on the last day; and sets between 6h. A.M. and 8h. A.M. He is moving slowly westward among the stars, and is near the Moon on the 7th. On the 6th he is in opnosition to the Sun.

he is in opposition to the Sun.

JUPITER'S SATELLITES .- The Immersions are visible till the 7th, and take place very near to the body of Jupiter, on the left hand as seen through a telescope that does not invert, and on the right hand of an inverting telescope. After the 7th the Emersions will become visible, and they will take place very near to the body of the planet, on the left hand as seen through a non-inverting telescope, and on the right hand as seen through an inverting telescope, and on the right hand as seen through an inverting telescope.

SATURN is in the constellation Pisces throughout the month.

SATURN is in the constellation Pisces throughout the month. He is an evening star; and sets at 8h. 28m. P.M., on the 1st day, at 3°½ N. of W. by S.; and on the last day at 7h. 1m. P.M., at 5°½ N. of W. by S. He moves eastward among the stars. and is near the Moon on the 24th. URANUS sets near the W. by N. on the 1st, at 11h. 3m. P.M.; and on the last day at 9h. 21m. P.M. He souths on the 15th, at 3h. 30m. P.M., at an altitude of 45°. He moves eastward among the stars; is near Venus on the 23rd, and the Moon or the 26th.

DIAGRAM ILLUSTRATIVE OF THE ECLIPSES OF JUPITER'S SATELLITES.

greatest eastern elongation (at c), and from thence, before he plauet, to its createst western elongation (at d). apply to the other atcllites. As the always directed from he Sun, it will be evident that the immersions only will be visible to a spectator on the Earth when the Earth is passing from E to E 2; and the emersions only will be visible whilst the Earth is passing from E 2 towards E, or when Jupiter is advaucing from opposition to conjunc-tiom. The 3rd and 4th satellites, as has been remarked, in consequence of their greater distances from the planet, sometimes disappear, and re-appear on the same side of the disk.

then passes to



Days of the Month.	TIMES	OF THE PASSING	PLANETS THE M	SOUTHI ERIDIAN.	NG, OR	JUPITER'S S	SATELLITES.	OCCULTATIO	ONS (OF STARS BY THE MO	ON.
Day the M	Mercury.	Venus. Afternoon	Mars. Morning.	Jupiter. Morning.	Saturn. Afternoon	lst Sat. Immersion. I.	2nd Sat. Emersion. E.	Names of the Stars.	Magni. tude.	Times of disappearance and re-appearance of the Star.	At the dark or bright limb of the Moon.
1 6 11 16 21 26 28	H. M. 1 18 1 23 1 19 1 0 0 28 Morning 11 34	H. M. 3 3 3 3 3 3 3 3 3 3 3 2 3 1	9 56 9 53 9 49 9 46 9 42 9 39 9 37	H. M. 0 40 0 17 Aftern. 11 28 11 6 10 44 10 36	H. M. 2 50 2 32 2 14 1 57 1 39 1 22 1 15	D. H. M. 1 1 8 A.M. I. 2 7 36 P.M. I. 8 5 17 A.M. E. 9 11 45 P.M. E. 11 6 14 P.M. E. 17 1 39 A.M. E. 18 8 8 P.M. E. 25 10 2 P.M. E.	D. H. M. 2 8 41 P. M. I. 10 2 11 A. M. E. 17 4 48 A. M. E. 27 8 44 P. M. E. 3rd Sat. 1 4 8 A. M. I. 22 7 36 P. M. E.	95 Virginis A star in Ophiuchus A star in Arietis	6 5 6	D. H. M. Star below horizon. 12 11 18 P.M. 16 4 29 A.M. 16 5 49 A.M. 17 6 51 P.M. 27 7 39 P.M.	Dark Bright Dark Dark Bright

	11	25	10 2 P	м. Е.	22 7 3	6 P. M.	E.		1			- 1	
TIMES OF CHANGES OF THE MOON,	f the	MERO	HRV		T ASCEN	ISIONS A			NS OF T				
And when she is at her greatest distance (Apo- gee), or at her least distance (Perigee), from the	Mont		Declina-		Declina-		Declina-		Declina-		URN. Declina-		NUS.
Earth in each Lunation	a P	Right Ascension		Right Ascension	47.4	Right Ascension		Right Ascension		Right Ascension		Right Ascension	Declina- tion North.
FULL MOON 7D. 11H.16M A.M. LAST QUARTER 15 4 3 A.M. NEW MOON 23 1 30 A.M. PEAIGEE 3 9 P.M. APOOFE 15 7 P.M.	6 11 16 21	22h. 4m 22 29 22 45 22 46 22 33 22 14	12° 45′ 9 14 6 18 4 47 5 12 7 7	23h. 49m 0 9 0 29 0 49 1 8 1 27	1° 28' North, 3 43 6 16 8 44 11 8	18h. 43m 18 59 19 15 19 31 19 47 20 3	23° 43′ 23 27 23 5 22 36 22 2 21 22	9h. 24m 9 21 9 19 9 16 9 14 9 11	16 33 16 45	23h. 37m 23 38 23 40 23 43 23 45 23 47	4° 49' 4 36 4 22 4 8 3 54 3 40	1h.11m 1 11 1 12 1 13 1 13 1 14	6° 51' 6 55 6 59 7 4 7 9 7 14

FEBRUARY .- VALENTINE DAY.



Twas on the morn of Valeutine, when birds hegin to prate, Dame Durdon's servant-maids and men, did each betake a mate. There was Moll and Bet, and Doll and Tet, and Dorothy draggle-tail, And Kate who was a charming girl to carry the milking-pail.

Old Song, entitled " Dame Durdon.

February brings with it Valentine Day. It is the month of hilling and cooing when youthful lovers have a most mysterious affection for hearts and darts, wings and rings, Cupids and altars, and no end of nameless emblems surrounded with lace-edged paper, and borders of flowers in all kinds of unnatural colours, which hang temptingly in the windows, and greatly bewilder the senses of both youth and madden, while they gaze. What a fluttering there is amougst young hearts, what a trembling bashfulness do the fairer purchasers display if the vendor of these cherished love-tokens chances to be a handsome young shopman, assuring him, should he request permission to write the address, that they have only purchased it to please a young friend, and that on no account should they themselves think of sending such nonsensical trifles. "Oh, dear, no! on no account." But St. Valentine's is a day of little harmless deceits; it seems to have been dedicated to disguised handwritings and false signatures; when letters that are only sent to the next door are posted a mile or two away, yet, strange ending of all, each foud lover hopes to he detected through this thin disguise. What a knowing and important look does the postunan assume on the morning of Valentine Day, especially in the country, where almost every rustic maiden is known

to him personally, and where he is as confident as if he had opened and read the missive, that it is not the only messenger of love that has been sent, but he can give a shrewd guess as to whence and from whom the little packet has heen despatched. The country barmaid seems rather more demure on such a morning; and even hard-handed and red-armed Betty looks brighter about the eyes than the tin and copper utensits which she daily scours—coming to the door ever and anon—peeping down the road, and wondering whatever it is that makes John, the postman, so late. Then the ostler has a struggle with Betty in the kitchen, endeavouring to get a peep at her Valentine; while the postboy looks with eyes askance upon Jane, the barmaid, on whom he is, as they say in the country, "rather sweet." He finds more to do than usual in the stable amongst his horses, whistles a great deal to himself, and when asked by the pretty flirt what is tho matter, answers "Oh, nothing at all!" wondering all the while to himself who can have had the impudence to write to Jane, and only wishing that he knew. She, perhaps, to make him a little jealous, has bought and posted the Valentine, and addressed it to herself, for such maneuvres are occasionally practised by the maidens when they wish to bring a distant lover to the point at

Issue. Another picture which we have seen of Valentine Day would have looked well in the minute painting of a Wilkic. The fond old mother, with her spectacles on, reading the Valentine to her husband, who smiled as he listened attentively to every line, which said

The rose is rod, the violet's blue, Carnation's sweet, and so is you. The ring is round and has no end, So is my tove to Mary, my friend. First we cast lots, and then we drew, Kind fortune said it must be you.

While the pretty daughter to whom these old-fashioned lines were directed sat with her hands clasped together on her knees, looking thoughtfully in the fire and wondering to herself whether or not William really meant what he had written, and if he loved her truly, as much as he pretended to do. Then when sho had retired to rest, the old people would sit down and think over what they could spare Mary towards housekeeping, when she married, and they would enumerate nearly everything they possessed, and deprive themselves of many little necessary articles, to add to the comforts of Mary, for teu to one they knew William's mind much better than she did: as the lover and the intended fatherial law, had often met on a Saturday evening at the Plongh, where, over a pint and a pipe, they had discussed the whole affair even down to what they should provide for dinner on the wedding-day.

Many antiquarians have endeavoured in vain to unravel the origin and mystery of Valentine Day, but their labours have hitherto been in vain; if discovered, it would likely enough be as unmeaning as the source from whence so many of our old customs have sprung, and not worth the labour wasted. Our ancestors were pretty close observers of nature, and there is but little doubt that, as they noticed the birds, which first hegin to build and pair at this period, when the weather is favourable, so natural an occurrence might lead to youths and maidens imtating the custom by selecting lovers, glad of any amusement

when the weather is favourable, so natural an occurrence might lead to youths and maidens imitating the custom by selecting lovers, glad of any amusement after the dark mid-winter had passed, and that Valentine Day had no other origin. As far hack as we have been enabled to trace this love-making day, we find it linked with the mating of hirds, which seems inseparable from St. Valentine; and we are at a loss to imagine how the worthy bishop, whose name is associated with it, first fell into such company.

The earliest Valentines were nothing more than slips of paper, on which the names of both sexes were written: they were placed apart, the men drawing from the pile on which the women's names were endorsed, and they again taking the first they touched from the opposite heap. These names were worn for a number of days—sometimes inside the coat, waistcoat, or budice—sometimes only on the sleeve, just as the feigned or real lover intended to express his passiou; and there is no doubt but that such a game, begun in jest, ended at times in earnest, and that by this means many of our forefathers won their fair brides.

fair brides.

Even in our own day (and in the country the harmless superstition still exists), the first maiden we met on this auspicious morning was considered our Valentine, and as such was hailed; and no little trouble do the rustic lovers put themselves to occasionally, to meet the one on whom their choice has before heen fixed. We can remember ourselves in the hey-day of youth being foolish enough to walk two miles in the snow and darkness, and waiting until the cottage door opened, to claim a cherry cheeked farmer's dangliter for our Valentine. Too poor, perhaps, to purchase the printed epistle, with Cupid's altar, hearts, and doves, we presented the original, and thereby saved both paper and postage. Gay, in his "Shepherd's Week," thus describes this old superstition:—

Last Valentine, the day when birds of kind Their paramours with mutual chirpings find, I early rose, jut at the hreak of day, Before the sun had chased the stars away. A-field I went, amid the morting dow, To milk my kine (for so should housewives do) The first I spied: end the first swain we see, In spite of fortune, shall our true-love he.

We have in our possession, framed and glazed, a Valentine, which was sent to a dear old lady we well know, more than half a century ago. It must have taken many hours to have ent out the hearts and diamonds in scissorwick, and painted the border which surrounds the unsailor-like looking gentleman, who is standing under a tree, and pointing to his ship. Both Chaucer and Lydgate make mention of Valentine Day, for the "Morning Star of Poetry" says-

Hessed be Saint Valentine, For on his day I chose you to be mine— Without repenting, my heart sweet.

For on his day I chose you to be mine—
Without rep. nting, my heart sweet.

—proof that five hundred years ago it was celebrated in England.

Towards the close of the month, if the weather is fine, the gardeners begin to bestir themselves. You see the little children out beside the cottages, with their tiny spades, assisting to clear away the withered boughs, and delighted at the fire that is kindled to barn up the tubbish, into which they thrust almost everything they can lay hold of that will burn. Days are longer, and they remain out to the very last minute, it is light, to play in the village street. Such a pleture have we now before us. The scene is a rough-hewn wall dividing a church-yard from the high-road: on the opposite ascent stand a row of little cottages, which overlook the low stony barrier, and command a view of the resting-places of the dead. A plot of grass, that already wears a green spring look, slopes down to the edge of the high-road; heside which a clear water-course goes tinkling icts the distant valley, then empties itself into a deep sluice, which goes naurmuring along through the dark flood-gates that open into a neighbouring river. The stream is crossed by a strong plank, which leads to the cottages. Some of the children are throwing stones and bits of aticks into the stream; others are watching them float away, and anxious that this boat, as they call it, should beat the other. Cold as it still is, a little by and girl are sitting on the sloping greensward: their mother, who stands sewing at the cottage-door, has twice warned them that they will take cold unless they get up; but they pay no regard to her. Two others are sittling astride the low chnrch-wall; a third is jetking stones into the brook. Lower down another group are running after each other. Boyond these you see the light from the blacksmith's shop falling faintly across the road. Most of the cottage doors are open, for, although only as yet February, the air is as mild as if it were April. An artist might sketch such a sc

The cloudy brow
Of winter smooth'd, up from her orient couch
She springs, and like a maid betroth'd, pute on
Her hridal suit, and with an ardent smile
Comes forth to greet her lover. Graceful 'tis,
Ay, passing sweet, to mark the cautious pace
Of slow-returning spring, e'en from the time

When first the matted apricot unfolds Its tender bloom, till the full orchard glows.—HURDIS.

In our description of February last year we only made slight mention of the rooks. Wo will now endeavour to do more justice to the habits of these dusky gentlemen, who go marching over field and furrow as if they were alone dusky gentlemen, who go marching over field and furrow as if they were alone the sole propietors of the land. Like many other social communities, they are made up of good and had, and, in spite of a tolerably vigilant police, are not free from the depredations of their own light-fingered gentry, who do not hesitate to carry away the whole of a neighbour's house when his back is turned; or sometimes instead of removing it, they take possession, and although generally turned out in the end, they have been seen to maintain their ground with a spirit worthy of a better cause. Sometimes a young married couple having laid a good solid foundation for their future home, return with a couple of rafters in their beaks, which, after a careful survey, they have borne over hill and valley, with weary wings, an immense distance; when, lo! instead of finding the half-finished house as they left it, the very foundation is gone, and nothing but the naked fork of the branch on which it was laid remains. Well may they but the naked fork of the branch on which it was laid remains. Well may they bob their heads and caw to one another, and wonder what impudent thleves have been so husy during their absence. They set out on the search, and find on the next tree every stick and stake twisted into another nest, on which one of the plunderers is resting, while the other robber, a down-looking dark-faced rascal, is perched on the branch beside his companion. After exchanging a word or two of a sort on each side, the battle commences: the whole neighbourhood is alarmed; the police interfere; and heing heaten the culpric are driven out-transported to some solitary tree—and not allowed during that season to return to the rookery.

are driven out—transported to some solitary tree—and not allowed during that season to return to the rookery.

Your rooks are not a proud people, who refuse to mingle with strangers, for they will frequently allow the noisy jackdaws to build heside them, and are not above dining with the starlings in winter, so long as they conduct themselves respectfully. Every one who has rambled out in spring or summer must have noticed the hundreds of small caterpillars which are often seen suspended by their own threads from the trees, especially the oak, the beautiful foliage by which they soon destroy. Here the rooks find a rich repast; and instead of waiting until the insects have spun their way to the ground, these birds alight upon the trees, and, fluttering their great black wings, send down the caterpillars in thousands, and having strewn the greensward with a plentiful banquet, the rooks then descend and east their fill.

Although the hooded crows do not live and build together in common like

the rooks then descend and eat their fill.

Although the hooded crows do not live and build together in common like the rooks, but in pairs, and generally at some distance, yet they hold what naturalists have called a Crow-Conrt. For two or three days may they be seen assembling together on some particular hill or field; and Dr. Edmonson, in his work on the "Shelland Islands," describes them as delaying the trial for a day or two, nntil sufficient numbers have arrived to form the court. Whether the prisoners are driven thither by force, or come to defend themselves, are found guilty by witnesses, or what, cannot be known, though it is an undisputed fact, that tho whole assembly are heard to croak as if in argument; that this lasts for some time—when the court rises like one crow, and begins to peck and beat the prisoners to death. Sometimes three or four of these victims are and beat the prisoners to death. Sometimes three or four of these victims are left dead on the floor of the court; and when the execution is over, the whole tribe disperse, betaking themselves in couples to their solitary trees, nor ever assembling together again in numbers until the next great crow-court is summoned

The swallow and the martin, if the weather is very favourable, often arrive by the end of this mouth, and we hear the old familiar twittering under the eaves

the end of this mouth, and we hear the old faminar twittering under the eaves in the early morning.

"The nest of a bird," says Mr. Crouch, "is so interesting an object, so curiously and admirably contrived for an evident purpose, of materials apparently so little calentated for the formation of such a structure, and its form and position are so varied according to the aptitude for comfort of its inhabitants, combined with security from discovery and danger, that it has ever been contemplated as a surprising manifestation of skill and intelligence in the little heings engaged in its fabrication."

Some to the holly hedge Nestling repair, and to the thicket some: Some to the rude protection of the thorn Commit their feeble effspring —Thomson.





	-	1	1		SUN	1.	- /	0	MOC	N.		DUDA	MION OF B	100NLIGHT.	HIGH WATER	<u> </u>
M	w	ANNIVERSARIES, OC.		}	Sour			7	Sour				TION OF B		AT LONDON BRIDGE	187
a	D	CURRENCES, FES-	RISES.	Afte	er 12	eight bove orizon	SETS.	Rises. Morning.	After-	Height above	Sars. Morning.	Before Su	nrise.	After Suuset.	1	Day of the Ye
		TIVALS, &c.		0 61	ock.	He ad		l coraning.	noon.	ab hor		O'Cloc 2h, 4h.	k. Age	O'Clerk, 7h. 8h. 10h.	Morning. Afternoon	
١,	Ti	Ember Week	и. м. 6 48	м. 12	s. 35	Deg.	в. м. 5 38	н. м. 10 12	и. м. 5 49	$54\frac{1}{4}$	0 24				и. м. и. м. 6 15 6 35	60
2		St. Chad	6 46	12	93	311	5 39	10 12	6 46	12 24	1 34		6		7 2 7 30	161
3		Capella souths 6h. 19m. P.M.	$\frac{6}{6} \frac{40}{44}$	12	10	213	5 41	11 49	7 44	561	$\frac{1}{2} \frac{34}{39}$				8 4 8 40	62
4	1	2ND S. in LENT	6 42	11	56	291	5 43	Afternoon	0 41	551	3 38		28		9 25 10 10	63
5		Sírius souths 7h. 45m. P.M.	6 40	11	13	291	5 44	1 55	9 37	$53\frac{1}{6}$	4 28		91		10 53 11 40	64
6		Castor souths Sh. 28m. P.M.	6 38	11	29	33^{25}	5 46	$\begin{vmatrix} 1 & 35 \\ 3 & 5 \end{vmatrix}$	10 30	- 4	5 10		(a) (b)		No Tide 0 15	65
7	W	Perpetua	6 36	11	14		5 48	4 16	11 21	47	5 44				0 44 1 10	66
8		Eclipse of Moon	6 33	10	59		5 50	5 28	Morning	1	6 14				1 37 2 0	67
9	1	Procyon souths 8h. 22m, P.M.	6 31	10	44	- 4	5 51	6 36	0 10	000	6 41				2 20 2 40	68
10	S	Pollux souths 8h. 23m. P.M.	6 28	10	28	341	5 53	7 45	0 57	341	7 ! 6			<i>977</i>	3 0 3 20	69
lii	S	3RDS. in LENT	6 26	10	12	35	5 55	8 52	1 43		7 32	-	10		3 35 3 53	70
12	0.00	St. Gregory	6 24	9	55	0.0	5 57	9 56	2 28	4	7 58				4 10 4 25	71
13		Regulus souths 10h.34m P.M.	6 21	9	39	. 2	5 59	10 59	3 13		8 22		17		4 45 5 0	72
14	W	Adm. Byng shot,	6 18	9	22	36	6 0	At Midnight	3 58	21분	8 51	1	- 9		5 15 5 35	73
15	TH	Castor souths 7h. 52m. P.M.	6 16	9	5	36½	6 2	Morning.	4 44	193	9 23		20		5 50 6 7	74
16	F	Procyon souths 7h.54m. P.M.	6 13	8	47	$36\frac{3}{4}$	6 4	0 56	5 30	19	10 1	<u> </u>	- 21		6 25 6 45	75
17	S	St. Patrick	6-11	8	30	$37\frac{1}{4}$	6 / 6	1 50	6 18	19	10 45				7 5 7 30	76
18	S	4TH S. in LENT	6 9	8	12	$37\frac{3}{4}$	6 8	2 39	7 6	20	11 34		28		8 0 8 45	77
19	M	[Edward King of West Ssx.	6 7	7	54	38	6 9	3 23	7 55	22	Afternoon		24		9 24 10 5	78
20	Tù	Spring Qr. begins	6 5	7	36	$38\frac{1}{2}$	6 11	4 2	8 44	243	1 31		25		10 45 11 25	79
21	W	Benedict	6 3	7	18	$38\frac{3}{4}$	6 12	4 37	9 34	281	2 38		28		No Tide. At Noon.	80
22	Ti	Follux souths 7h. 37m. P.M.	6 1	7	0	39	6 14	5 8	10 24	$32\frac{1}{2}$	3 49				0 30 0 55	81
23	F	Weber died, 1829	5 59	6	42	$39\frac{1}{2}$	6 15	5 37	11 14	-	5 3		23)		1 15 1 35	82
24	S	[Ann. Lady Day]	5 57	6	23	40	6 17	6 5	Afternoon	37	6 18				1 55 2 15	83
25		5th S. in Lent,	5 54	6	5	$40\frac{1}{2}$	6 18	6 33	0 58	4134	7 36				2 33 2 50	84
26		Pr. Geo.Wm.brn.	5 52	5	47	$40\frac{3}{4}$	6 20	7 2	1 51	$46\frac{1}{4}$	8 54		3		3 10 3 30	85
27		[1819]	5 50	5	28	$41\frac{1}{4}$	6 22	7 34	2 47	$50\frac{1}{4}$	10 11				3 49 4 10	86
28		Abercromby died,	5 47	5	10	$41\frac{1}{2}$	6 24	8 11	3 43	- 2	11 25		4 5		4 30 4 50	87
	TH		5 45	4	-	42	6 26	8 54	4 41	$55\frac{1}{2}$	Morning.		6		5 13 5 35	88
30		Camb. Term ends		4	33	- 4	6 28	9 45	5 39	$ 56\frac{1}{4} $	0 34				5 57 6 20	89
31	S	Ox. Term ends	5 41	4	14	$42\frac{3}{4}$	6 30	10 43	6 37	56	1 34			I—I—I—	6 50 7 20	90
-																

MARCH.

MARCH.

The Sun is in the sign Pisces till the 20th, on which day, at 5h. 13m. P.M., he enters the sign Aries (the Ram), and Spring commences. On the 1st day he is 94,195,000 miles from the Earth. He rises on the 1st at \(^3_4\)^\circ S. of E. by S.; on the 20th, at the E.; and on the 31st, at 6\(^3_4\)^\sigma\$ N. of E. Its sets on the same days respectively, at \(^3_4\)^\sigma\$ S. of W. by S., at the W., and at \(^7_4\)^\sigma\$ N. of W. His time of southing, in common clock time, and his height in degrees at the same time, are shown every day on the opposite page.

The Moon is in the constellation Taurus on the 1st and 2nd; on the 3rd, in Orion, and crossing the Milky Way; in Gemini on the 4th; in Cancer on the 3th and 6th; in Leo ou the 7th and 8th; in Virgo from the 9th to the 12th; in Llbra on the 13th and 14th; in Ophiuchus on the 15th and 16th; near Aquila and Sagittarius on the 17th and 18th; in Sagitarius on the 19th; in Capricornus on the 20th; in Aquarius on the 21st and 22nd; in Pisces on the 23rd; near both Pisces and Cetus on the 24th and 25th; in Cetus on the 26th; near Cetus and Aries on the 27th; in Taurus on the 28th, 29th, and 30th; and in Gemini on the 31st.

tho 31st. She rises before the Sun sets till the 8th, after sunset till the 23rd, and after Sun ise from the 24th. She sets before sunrise till the 8th, during the day till the 24th, and after sunset from the 25th. For the actual times, see the opposite page. She is on the Equator on the 10th and on the 24th. Her time of sonthing, in common clock time, and her height in degrees at the same time, are given, for

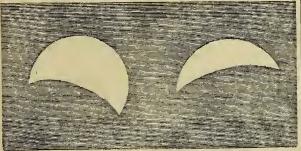
common choic time, and are neight in degrees at the same time, the grown we every day, on the opposite page.

She is near Jupiter on the 6th; Mars on the 21st; Mercnry on the 22nd; Saturn on the 24th; Uranus on the 25th; and Venus on the 27th.

She is full on the 9th, and new on the 24th; and an Eclipse of the Moon takes

The Eclipse of the Moon begins at London, on the 8th, at 11h. 25m. p.m.; and its successive appearances are shewn in the accompanying diagram.

APPEARANCE OF THE MOON DURING HER ECLIPSE



P.M.

At 9d. 0h. 10m. A.M

AFTER THE MIDDLE OF THE ECLIPSE.



9d. 1h. 40 n. A.M.

AFOGEE

PERIGEE

At 9d Ob. 55m. A.M.

The middle of the Eclipse occurs on the 9th, at 0h. 55m. A.M.; and the annexed diagram shows the appearance of

nexcd diagram shows the appearance of the Moon after this time, which ends at 2h. 25m. A.M. This is the only visible Eclipse during the year.

Mercury is in the constellation Aquarius till the 30th; and ou the 31st he passes into that of Pisces.

He is a morning star; and rises, on the 1st, at 41m.; on the 7th, 8th, and 9th, at 50m.; on the 10th, at 40m.; and on the last days at 32m. before the Sun. 9th, at 50m; on the 10th, at 49m; and on the last day, at 32m, before the Sun. He is not very favourably situated for observation. He sets before the Sun throughout the month. He rises, on the 1st, at 2°½ E. by S; on the 15th, at 8°S. of E. by S.; and on the 31st, at 2°S. of E. by S. He is moving westward among the stars from the 1st to the 7th; is stationary on the 8th; and is moving is stationary on the 8th; and is moving

eastward from the 9th to the 51st. He is near the Moon on the 22nd, and at his greatost west elongation on the same day. His telescopic appearance at this time is shewn in the annexed diagram.

APPEARANCE OF VENUS ON THE 1st; OF MERCURY ON THE 22ND; AND OF MARS ON EVERY DAY; AND THE PATH OF VENUS IN THE HEAVENS DURING THE MONTH.



The planets are drawn on a scale of 40 seconds of arc to one inch; and the path of Venus with respect to the fixed stars is on a scale of 15 degrees to one inch.

VENUS is in the constellation of Aries till the 30th; and in that of Taurus on the 31st.

the 31st.

She is an evening star; and sets, on the 1st, at 10h. 10m. p.m.; on the 6th, at 10h. 21m.; on the 12th, at 10h. 33m.; on the 18th, at 10h. 44m.; on the 24th, at 10h. 51m. p.m.; and on the 31st, at 10h. 56m. p.m.; at 8°\frac{2}{3} N. of W. by N. on the 1st; at W.N.W. on the 4th; and at N.W. by N. on the 23rd. She is inoving eastward among the stars during the month; is at her greatest east elongation on the 1st; is in perihelion on the 10th; and near the Moon on the 27th. Her appearance on the 1st, and her path in the heavens, are shewn in the annexed discourse.

diagram.

Mars is in the constellation Capricornus throughout the month.

He is a morning star; and rises, on the 1st, at 51. 27m. A.M., at the S.E. by E.; and on the last day, at 4h. 25m. A.M., at 1²4 S. of the E.S.E. point of the horizon. His times of southing are given below; and he sets between 1h. and 2h. p. M. He is moving eastward among the stars, and is near the Moon on the 21st.

JUPITER is in the constellation Cancer throughout the month

He is visible throughout the night. He rises, on the lst, at 2h. 55m. p.m.; and on the last day, at 0h. 45m. p.m.; souths at an altitude of 56° nearly on the 1st, and of 56° at the ond of the month, this altitude being the greatest he attains during the year. He sets between 4h. and 6h. A.m. He is moving slowly westward amongthe stars till the 27th, after which time he is nearly stationary among them, and is near the Moon on the 6th.

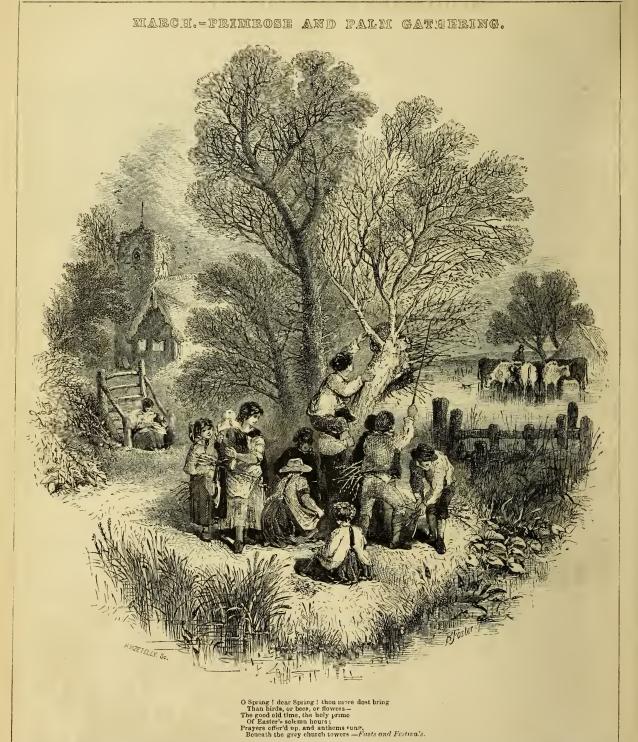
JUPITER'S SATELLITES .- The Emersions of the 1st, 2nd, and 3rd are visible; those of the 1st re-appear at less than one-half; those of the 2nd, at greater than one-half; and those of the 3rd, at one diameter of the Planet nearly. On the other hart, and interest in the state of the state are visible; it immerges at the distance of one diameter, and emerges at the distance of two diameters. All these phenomena take place to the left as seen through a non-inverting telescope, and to the right of the Planet as seen through an inverting telescope. scope.

SATURN is in the constellation Pisces till the 9th; and in that of Cetus from

He same vening star at the beginning of the month; and sets, on the 1st day, at 6h. 57m.r.m. Towards the end of the month, he rises, souths, and sets at the same times as the Sun; and is not favourably situated for observation. He moves eastward among the stars, is in conjunction with the Sun on the 18th, and is near the Moon on the 24th.

URANUS sets near the W. by N., on the 1st, at 9h. 18m. P.M.; and on the last day, at 7h. 30m. P.M. He souths before the Sun sets; and is, therefore, not visible at these times. He moves slowly eastward among the stars, and is near the Moon on the 25th.

f the	TIMES	OF THE PASSING	PLANETS THE MI	SOUTHI ERIDIAN.	NG, OI	1	JUP	TER'S S	ATELLITI	es.		occul	TATIONS	OF STAR	s ву тн	E MOON	
Days of the Month.	Mercury.	Venus.	Mars.	Jupiter.	Satur	n.	lst Sa	Eclipse		. Sat.	Na	nes of the S	tars. Wagni.	Times and re-	of disappe appearance Star,	earance A	t the dark hright limb of the
	Morning.	Afternoon	Morning.	Afternoon	Aftern	oon	Emersion	١.	Em	ersion.			K	\$	Star,		Moon.
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TIM	ES OF C	HANGES	OF THE	MOON,	the .			RIG	HT ASCI	ENSIONS	AND D	ECLINAT	IONS OF	THE PL	ANETS.	-	
And	when she is	at her grea	atest distan	ce (Apo-	p e	MER	CURY.	VE	NUS.	MA	RS.	JUPI	TER.	SATU	JRN.	UR	ANUS.
.,	or at her los		(Perigee),	from the	Days	Right Ascension	Declina- tion South	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion South	Right Ascension	Declina- tion North.
Fuli Last New	T QUARTE MOON QUARTEE MOON T QUARTE GEE	· · · · · · · · · · · · · · · · · · ·	1 2 6	M. A.M. A.M. A.M. P.M. A.M.	6 11 16 21	22h. 4m 21 54 21 55 22 5 22 22 22 42	8° 31′ 10 30 11 39 11 54 11 21 10 5	1h. 38m 1 56 2 14 2 31 2 47 3 2	14 44 16 49 18 44	20h, 13m 20 29 20 44 21 0 21 15 21 30	20° 554 20 6 19 12 18 13 17 9 16 1	9h, 10m 9 8 9 6 9 4 9 3 9 2	17° 25′ 17 34 17 42 17 49 17 54 17 58	23h. 48m 23 50 23 53 23 55 23 57 0 0	3° 31′ 3 16 3 2 2 47 2 32 2 17	1h. 15m 1 16 1 17 1 18 1 19 1 20	7° 17′ 7 23 7 28 7 34 7 41 7 47



Palm-Sunday, was an old holiday which our ancestors kept with great reverence, in remembrance of Our Saviour's entrance into Jerusalem; and it is still a custom to ornament the houses in the country with the silvery buds of the willow (which are called palm) in the present day. These buds, which lie like great oval pearls upon the slender stems of the osiers, are the earliest heralds of spring, and often come out long before the hawthorn has put forth a single speck of green, and may frequently be seen in the cottage windows overtopping a border of sweet primroses, snowdrops, or violets, which have blown before the coming of Easter. Many a mild March day has seen us out with our youthful companions in the fields beside the river Trent, gathering the buds of the willow and the white blossoms of the blackthorn, which also hang npon the hedges, like a cloud of flowers, long before a green leaf, execting that of the alder, has shot out of its wintery sheath. Although it was too the palm of Palestine we gathered, yet it was such as our forefathers had for centuries chosen as the emblem of those green branches which were scattered before Our Redeemer; and to us it brought back an old and holy

picture, carrying the imagination into that ancient city of the E st, and bringing before the "mind's eye" one of those impressive scenes which are linked with the establishment of the Christian religion. It also calls up the figures of those pious pilgrims who wandered into the Holy Land and visited many a distant

pions pilgrims who wandered into the Holy Land and visited many a distant shrine, bearing the palm-branch in their hands—the acknowledged token of peace and prayer.

The abolition of these sacred emblems, which once adorned our churches, and were borne in our Easter processions, could be of no benefit to the progress of religion. They were the productions of Nature, not the work of man: they served to show that He who ruleth the seasons had again sent Spring with all her fluwers; and with these were linked the memory of the Son of God, who rode not forth in regal purple, crowned with gold, but "meek, and sitting upon an ass." Such associations did the silver buds bring to the early Christians, and the custom of palm-gathering was kept up until the Reformation in England.

With what delight did we hall the first appearance of these pearl-like buds—

they told us that spring was near at hand; the sun also came to throw his light upon them two hours earlier than he did a few weeks ago, and in the hudding hedges we had already discovered the sky-stained eggs of the hedge-sparrow. Well can we rememher the woods where we gathered the first primroses, and which were soon to he green with lilies of the valley. What a refreshing smell there was about the earth we dug up to get at the moss-covered roots of those early primroses, for they were the first treasures which we transplanted to our little gardens, where, day hy day, they lost that beautiful hloom which they only bear in the solitude of the wildwood. The sounds of youthful voices seem in accordance with the opening of this happy season, as they fall at intervals upon the ear, filling up the pauses which occur between the singing of the blackbird or the thrush, and wafting pleasant memories to the wanderer, telling him that eager eyes are already watching the opening heauties of the flowers.

I love to see the little goldfinch pluck
The groundsel's feather'd seed, and twitting, twit;
And soon in bower of apple-hlessoms perched.
Trim his gay suit, and pay us with a song—Hurdis.

Trim his gay suit, and pay us with a song—HURDIS.

Ahove a thousand years ago, onr Saxon forefathers had no other landmarks to distinguish the houndaries of their estates than the objects of Nature—a tree, a hush, or a water-course, served them instead of walls and hedges; and we can almost fancy that we are overlooking those old English landscapes while reading one of their ancient deeds of conveyance. One estate is mentioned in a deed, dated 886, as stretching along from Sheep-lea to the Broad Bramble, past the Old Gihhet-place and the Old Ford, along the Deep-dell, to the Thorn on the Mere, thence to the Red-cross, by the stream of Alders, up the Milk-valley hy the Foresters' Mark, and along the Hay-meadow. Another goes from the Bridge by the Eel-ditch, past the Bourn and the Great Willow, from the Hoary Thorn to the Oak-tree, by the Three Hills and the Thorn Maple to the Three Trees, the Deep Brook and the Clear Pool, by the Black Willow, the Nettle Island, the Sedge Moor, past the Burrows, the Hillock, the Ship Oak, the Great Aspen, by the Reedy Slough, and conward to the Hoary Apple Tree heyond the Wolf-pit.

What an assemblage of old poetical names have we have

Wolf-pit.

What an assemblage of old poetical names have we here: we can see the half-drained and half-cultivated country; we can picture it in miry March with its reedy meres and impassable sloughs—the rude wooden bridge by which the ploughman crossed over the quaking hog to get at the rich land which lay beyond. Yet amid these wilds and old forest-fastnesses the violets and primroses hlowed as they do now, and the Saxon serf was cheered by the skylark's song while he laboured in those old hedgeless wastes. The bleating of young lambs was then heard upon the wold—the ice-freed hrooks rolled merrily along; and though he fared hard by day, and at night had a hlock of wood for his pillow, Nature was still his comforter, and he found solace in the sights and sounds, that greeted his eye and ear, when he wandered along over the opening daisies.

daisies.

Although the trees are leafless, there is something ahout a mild sunny day at the close of March which tells us that all the out-of-door world is alive—that the very air which seemed so silent in winter now murmurs with life, while a thousands insects are dancing ahout overhead, as if rejoicing that the time of flowers is so near at hand. The winding roads have on such days a dry, warm, summer look, and you can searcely peer under any hedge without discovering on the sun-lit hank the silent progress that spring is making; for here and there the starry celandine has thrown open its golden-rayed flower, and the furze hung out its burning blossoms, which shoot up like a thousand flames from a green clandelier. Now the first bee comes hlundering abroad, and running his hlack lead against everything, as if not yet thoroughly awake. You wonder where he has hidden himself all the long winter, for you see at a glance that he belongs to no hive, but has his home somewhere in the neighbouring wood. What a summer sound his hooming gives to the air; depend upon it he knows where the broadest primroses and sweetest violets blow; but he has gone to ransack yonder furze-bush, and will soon he husy rifling the yellow hlossoms;

While the ploughman, near at hand, Whistles o'cr the furrow'd laud,

giving all the air a "countryfied smell," as he turns up the sleeping furrows, and causing you to sigh as you think of hadly-drained streets and ill-ventilated houses, which you are doomed to breatle amongst in the City, places which rosy Health rarely plants her foot upon, for if she alights there the bloom upon her cheek at once hegins to fade, and unless she hurries hack to the breezy hills and greenwood sides, she will he compelled to how her head in wan con-

sumption's sickly lap.

So conducive to health is the aroma arising from the newly ploughed earth, that we have frequently seen an invalid seated in a chair, secured to a kind of truck which was attached to the horses, and dragged along helind the ploughman, truck which was attached to the horses, and dragged along hehind the ploughman, whose lahour was not at all impeded by his passenger, excepting that it required more care when turning round at each end of the field. What heavy masses of clay at times cling to the ploughman's hoots. You wonder how he manages to get along with such a clog to his heels; every stride he takes, the mass accumulates; and when, after many shakes, he gets rid of it, there lies a clod weighing pounds upon the furrow, the upper part hearing the impression of every nail in his hoot. His hands are hard as horn through holding the plough; and if he has followed the same lahour for years, there is a peculiar roundness ahout the shoulders which tells that the continued grasping of those wight states is no easy work.

bright shafts is no easy work.

The roads have a different appearance now from what they had a few months ago; there are more moving figures in the landscape, especially when it is market-day—such a scene as we have attempted to describe in a little poem, where

Busy forms move o'er the landscape brown Busy forms move o'er the landscape brown
In twos and threes, for it is market-day.
Beyond those hills stretches a little town,
And thitherward the rustice boud their way,
Crossing the scene in red, and blue, and grey,
Now by the hedge-rows, now hy oak-trees old,
As they by title or low-thatched cottage stray.
Peep through the redurded hand, then you'll hehold
Such scenes as Morland drew in frames of sunny gold

A laden ass, a maid with wicker maun,
A shepherd's lad driving his lambs to sell;
Gaudy-dress'd girls move in the sunny dawn.
Women whose cloaks become the landscape well
Farmors whose thoughts on crops and prices dwell.
An old man with his cow and calf draws near.
Anon you hear the village carrier's bell;
Then doth his grey old filted cart appear,
Moving so slow, you think he never will get there.

But "slow and sure" has heen for years his motto; and he will not only get there in time for the market, but stop and hait at a little road-side house, the swing sign of which you can just distinguish by the white post that supports it, on the left at the foot of the hill.

Now in the ponds and ditches may be seen hundreds of little frogs, and Now in the ponds and ditches may be seen hundreds of little frogs, and tadpoles with their round heads and long tails, hearing, at present, no more resemblance to a frog, than an egg does to a living hird. They are devoured in millions by the fishes. If they miss the jaws of the finny tribe, there are the newts ready to prey upon them: if they escape the newts, there are no end of water-fowl on the look-out: the snake feeds upon them as soon as they can leap: water-town on the look-out: the snake feeds upon them as soon as they can leap: stoats and weasels dine off them, when nothing better can be had; and they can scarcely move anywhere without meeting with an enemy. On no account ought frogs to be driven out of gardens that are infested with slugs; for these are a favourite food; and wherever frogs are found, the slugs soon disappear. The way in which the frog seizes its prey is by throwing its tongue forward. The action is quick as thought—no sooner is the tongue out than the slug has vanished: it is almost impossible for the eye to detect the action, it is so momentary. In winter the frog buries itself in the mud, at the bottom of ponds and ditches, when it comes forth; and you must hen see on winter the frog buries itself in the mud, at the bottom of ponds and ditches, where it remains until spring, when it comes forth; and you may then see on the top of the water a number of hlack spots floating in a jelly-like substance. These are the spawn, or eggs, in which the tiny tadpoles are enclosed. They possess the power of breathing through the skin; and it is no easy task to either hang or drown them. It is now stale information to state that the toad is not venomous, but is as perfectly harmless as the frog, and equally useful in gardens. It is an nunecessary cruelty to destroy these inoffensive reptiles: they have sufficient enemies without man waging war against them; he, of all, ought to be their protector.

they have sufficient enemies without man waging war against them; he, of all, ought to he their protector.

I have a great love for those little dirty and noisy vagrants, the sparrows; who hide, and huild, and hreed under the smoky eaves, and come out, sometimes, as black as soot. Wherever man rears his house, they follow. They are always ready with their "good morning" as soon as it is light. They take possession above, and the mice below; hoth are naupers that will have no "nay." If man can contrive to live, they are resolved to live with him. For ages they have been his constant companions. The sparrow hops down and breakfasts with the fowls, without needing an invitation. He takes possession of the cornick, and helps himself hountifully. In summer, he goes into the harvest field, if it is near at hand; nor is he very particular about waiting until the corn is ripe, hefore he commences his hanguet. In vain does the farmer set a price ripe, hefore he commences his hanquet. In vain does the farmer set a price upon his head; he contrives to live, and die, and leave a large family of sparrows behind him, who know how to pick up a living as well as he did. The sparrows, like the rooks, have their mode of punishment; and when any culsparrows, like the rooks, have their mode of punishment; and when any culprit has committed himself, they raise a clamour loud enough to alarm a whole neighbourhood. It begins in a moment—they all set to at once; and when they have had their say, they leave the offender to his own reflections. They are hasty, but it is soon over with them: nor do they ever put their victim to death; but having beaten him, and told him their minds, they treat him as kindly as hefore. In one instance, when the house sparrows had undergone a long persecution, they heat a retreat, and huilt their nests in some adjoining trees—a proof, that, when compelled by danger, they could change their hahits; and, like other hirds, huild amongst the hranches, instead of under the thatch or heneath the cayes.

and, like other hirds, huild amongst the hranches, instead of under the thatch or heneath the caves.

One of the great pleasures which a lover of nature finds in a March ramble, is the arrival of the birds, which keep drouping in hy twos and threes, we know not from whence. Nearly first comes the little wryueck, with its beautiful phrnage, so richly marked, that it is almost impossible to describe its varied colours. You know it at a glance; for it is always twisting the dark-lined head and neck over the shoulders. Then we see the tiny willow-wren, whose chirp may be heard until September. It is also elegantly marked—yellow, brown, and white, and fond of frequenting the osier-bess. The titmouse and yellow-hammer also begin to sing; and together with the skylark, hlackbird, throstle, woodlark, wren, and several others, there is already such a spring concert opened, as makes a lover of nature leave his chimney corner, and go forth to listen to their "sweet piping."

Sweet were the sounds which through the green valo flow'd:
The gentle lamb. bleated all summor long;
The spotted heifer from the vylsnd lowed;
The speckled thrush struck upits piping song;
A mournful "coo" the blue wood-pigeon mado,
Now high, now low, now lost—just as the spring breeze played.





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				SUN				MO			DU	RATION (OF MO	NLIGHT.	HIGH	WATER	1
M	W	ANNIVERSARIES, OC-		SCUTI			RISES.	Sou		SETS.	Refore	Sunrise.	0	After Sunset.		n Bainek.	of sear
D	D	CURRENCES, FES-	Rises.	After 12	Height above norizon	EETS	Morning.	After-	igh ove	Morning.		lock.	Moon' Age	O'Clock.		1.0	Day the Y
		TIVALS, &c.		o'clock.	He ab		aron and	noon.	Height above horizon	1.ZU/LILING	2h.	3h .4b.	34	8h, 9h 10h	Morning.	Afternoon	
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1	S	PALM SUNDAY	5 38	3 56	1 4		11 42	7 3	1. 49	2 26	1 1/1			_	7 50		
2	$ \mathbf{M} $	2nd Day in Pas-	5 36	1	2		Afternoon	$\mid 8 \mid 2$	5 5 1 3	3 10			9		9 15	0 00	92
3	Tu	sion Week	5 34	3 20	44 6	35	2 4	9 1	$6 48\frac{1}{4}$	3 45			TO _	_ _ _	10 40	11 25	93
4	W	St. Ambrose	5 31	3 2	1416	37	3 15	10	$5 43\frac{3}{8}$	4 17			192		At Noon.	No Tide.	94
5	Tin	Maundy Thursd.	5 29	2 44	4436	38	4 23	10 5	$2 41^{\frac{3}{4}}$	4 43		1			0 28	0 55	$\parallel 95 \mid$
6	F	GOOD FRIDAY	5 27	2 26	45 6	40	5 31	11 3	7 36 1	5 10			181		1 20	1 40	96
7	S	Castor souths at 6h. 2m. P.M.		2 9		41	6 37	Morning	904	5 32					2 0	2 15	97
8		EASTER SUNDAY	5 22		21-		7 43	0 2		5 57			35.		$\begin{vmatrix} 2 & 35 \end{vmatrix}$		98
0	M	Easter Monday	5 20	1 35	10	44	8 47	1 2	725^{4}	6 23			15		$\frac{2}{3} \frac{3}{10}$	3 25	99
30	TEL		11	1	4			1 5	- 1				17		3 40	1 0	100
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11	W	Pollux souths 6h, 13m, p.m	$ 5 _{\sim} 15$	0 40	4/ 0	47	10 48	2 3	- 4	7 21			13: 7		4 15	,	102
12			5 13	0 40	4 4	48	11 42	3 2	$4 19\frac{1}{4}$	7 56					4 45	$\begin{bmatrix} 5 & 0 \\ 5 & 0 \end{bmatrix}$	102
13	W	Alpha Hydræ souths 7h 53m.	10 11	0 30	$ 47\frac{1}{2} 6$	-	Morning.	4 1	1 183	8 38			214 7		5 20	5 35	105
14	S	[Easter T. begins	5 9	0_15	10	52	0 32	4 5	$9 20\frac{1}{9}$	9 25	1				5 54	6 10	104
15	S	Low Sunday.	5 7	At Noon	$ 48\frac{1}{4} 6$	54	1 18	5 4	$7 20\frac{3}{1}$	10 18			25 7		6 35	7 0	105
16	M	Passage of the Ky-	5 5	Before 12 o'clock	$ 48\frac{3}{4} 6$	55	1 59	6 3	$5 23\frac{1}{4}$	11 16	111111111111111111111111111111111111111				7 25	8 0	106
17	Tu	ber Pass by Gan. Pollock, 1842,	5 2	0 30	49 6	57	2 34	7 2	$3 26^{\frac{7}{4}}$	Afternoon			25		8 40	9 20	107
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21		Beta Leonis souths 9h. 42m.	4 55	1 23		4	4 30		344^{4}	5 8					0 38	1 0	111
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23		St. George	4 51	1 47	4	8		Afterno		7 48					2 0	2 20	113
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28		Eta Boötis souths 11h. 20m.	4 41	2 38	527 7	16	9 36	5 2		0 23	1/4/1/1		_		5 45	6 10	118
29	S	3RD S. aft. EAST.	4 39	2 47	53,7	17	10 44	6 23		1 11	30//		8 _		6 40	7 10	119
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1																	

APRIL.

The Sun is in the sign Aries till the 20th; on which day, at 5h. 34m. A.M., he enters the sign Taurus (the Bull.)

On the 1st he is 95,010,000 miles from the earth. He rises, on the 1st, at 70½

N. of E.; on the 7th, at ½°S. of E. by N.; and on the 28th, at E.N.E; he sets on the same days at 70½ N. of W.; at W. by N., and at ½°N. of W.N.W. respectively. His times of southing, in common clock time, and his height in degrees at the same time, are given for every day on the opposite page.

The Moon is in Taurus on the 1st; Cancer on the 2nd; Leo on the 3d, 4th, and 5th; in Virgo from the 6th to the 10th; in Ophluchus on the 11th, 12th, and 13th; near hoth Aquila and Sagittarius on the 14th and 15th; in Capricornus on the 16th; in Aquarius on the 17th, 18th, and 19th; in Pisces on the 20th; in Cetus on the 21st; in Pisces on the 22nd; in Cetus again on the 23rd; in Taurus on the 27th and 23th; in Cancer on the 29th; and iu Leo on the 30th.

She rises before the Sun sets, till the 5th; during the night, till the 21st; and after sunrise, from the 22nd. She sets before sunrise, till the 6th; during the day till the 22nd; and after sunset, from the 23rd. For the actual times, see the

opposite page.

She is on the Equator on the 6th and on the 21st. Her time of southing, in common clock time, and her height in degrees at the same time, are given for

every day on the opposite page.

She is near Jupiter on the 2nd; Mars on the 19th; Saturn on the 20th; Mercury and Uranus on the 22nd; Venus on the 24th; and Jupiter again on the

She is full on the 7th, and new on the 22nd, but without an Eclipse at hoth times.

times.

MERCURY is in the constellation Pisces till the 11th; in that of Cetus from the 12th to the 19th; in Pisces from the 20th to the 25th; in Cetus on the 26th and 27th; and in Aries from the 28th.

He is a morning star; and rises on the 1st at 30m.; on the 15th, at 19m.; and on the last day, at 5m. before the Sun. He is not well situated for observation. He sets before the Sun throughout the mouth. He rises on the 3rd, at E. by S.; on the 14th, at the E.; on the 23rd, at E. by N.; and on the last day, at 10\frac{1}{2}\$ S. of E.N.E. He is moving eastward among the stars throughout the month; he is near Saturn on the 11th; the Moon on the 22nd; and Uranus on the 23rd; as is shown in the annexed diagram, exhibiting the paths of these Planets in the heavens during the month. heavens during the month.

PATHS OF MERCURY, SATURN, AND URANUS, WITH RESPECT TO EACH OTHER AND TO THE FIXED STARS, DURING THE MONTH OF APRIL, 1849.



Scale, 12 degrees to one inch

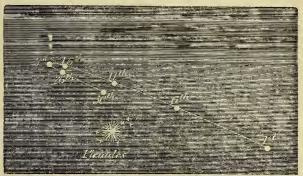
Venus is in the constellation Taurus throughout the month.

She is an evening star, and sets at 10h. 56m. p.m., on the 1st; at 10h. 57m.

10n P.M., and on the last day at 6h. 41m. p.m. He moves slowly eastward among the stars; and is near the Moon on the 22nd, and Mercury on the 23rd.

on the 6th; at 10h. 49m. on the 12th; at 10h. 31m. on the 18th; at 10h. 9m. on the 24th; and at 9h. 35m. on the 30th; at 4° N. of N.W. by N. on the 1st; and at 6½° N. of N.W. by N. on the last, day. She is moving eastward among the stars from the 1st to the 19th; is stationary among them on the 20th and 21st, and is moving slowly westward from the 22nd to the 30th. She is at her greatest brilliancy on the 7th, and is near the Moon on the 24th; she is near the Plefades all the month, at first approaching, then receding, and then approaching them again, as is shown in the annexed cut. Her telescopic appearances during this month and that of May, is shown in the next month. month and that of May, is shown in the next month.

RELATIVE POSITIONS OF VENUS WITH RESPECT TO THE FIXED STARS, IN APRIL, 1849.



Scale, 3 degrees to one inch.

Mars is in the constellation of Aquarins till the 27th, on which day he passes into Pisces.

He is a morning star, and rises on the 1st at 4h. 23m. A.M., at 1° S. of E.S.E; on the 3rd, at 4h. 18m. A.M. at the E.S.E.; on the 29th, at 3h. 13m. A.M., at the E. hy S. point of the horizon (his times of southing are given below), and he sets at about 2h. r.M. He is moving eastward among the stars, and is near the Moon on

the 19th.

JUPITER is in the constellation Cancer throughout the month.

Out the month.

He is an evening star, and rises between 10h.

A.M. and noon; souths at an altitude of ahout 56°, and sets on the 1st at 4h. Im. A.M. at 6°½ N. of W.N.W., and on the last day at 2h. 9m. A.M. at 6° N. of W.N.W.

6° N. of W.N.W.

He is nearly stationary among the stars till the 21st; and after this time he moves slowly eastward. He is near the Moon on the 2d, and again on the 29th. Jupiters' Satellires.—The Emersions of the 1st and 2nd are visible; those of the 1st appear at the distance of one half, and those of the second at the distance of one diameter nearly. On the 13th an Immersion and Emersion of the 3rd are visible; the former occurs at a distance somewhat greater than one diameter, and the latter at two diameters, to the left of the Planet as seen through a non-inverting telescope, and to the right as seen through an inverting telescope.

Saturn is in the constellation Cetus throughout the month.

the month.

He is a morning star towards the end of the month, and rises, on the 15th, at 4h. 38m. A.M., and on the 30th, at 3h. 42m. A.M., a little S. of the E. point of the horizon. He moves eastward among the stars; is near Mercury on the 11th, and the Moon on the 20th.

of the	TIMES	OF THE PASSING	PLANETS G THE M	SOUTHI ERIDIAN.	NG, OR		ATELLITES.	OCCULTATIO	ons (OF STARS BY THE MO	ON.
Days of th Month.	Mercury.	Venus.	Mars	Jupiter.	Saturn.	1st Sat.	2nd Sat.	Names of the Stars.	Magni.	Times of disappearance and re-appearance of the	At the dark or hright limb of the
	Morning.	Afternoon	Morning.	Afternoon	Morning	Emersiou. E.	Immersion. I.		Z +	Star.	Moon.
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TIMES OF CHA						of the	MER	CURY.	R	IGHT VEN		CEN	SION	S Al	ND DEC			NS O				NETS. URN.	UR	ANUS.
gee), or at her least	cee), or at her least distance (Perigee), from Carth in each Lunation.							Declina- tion South.		ight ension	tio	lina- on rth.	Rig	ht	Declina- tion South.	Ri Asce	ght neion	Decli tio Nor	n	Rig Ascen	ht sion	Declina- tion South.	Right Ascension	Declina- tion North.
FULL MOON LAST QUARTER NEW MOON FIRST QUARTER APOGEE PERIGEE	::	71 15 22 29 12 24	7 11 2 10 10	. 50M. 8 54 17	P.M. P.M P.M. P.M. A.M.		23h.11m 23 37 0 6 0 36 1 9 1 45	7° 44′ 5 10 2 6 North. 5 19 9 30	3	.18m 30 33 44 46 44	23° 24 25 25 25 25 25	36 22 50 57	21h. 4 22 22 1 22 3 22 4 23	3 8 3	14° 35′ 13 19 12 0 10 39 9 15 7 50	9h. 9 9 9 9	1m 1 1 2 3	18° 18 18 17 17	0' 1 1 59 55 51	0 0 0	2m 5 7 9	2° 0′ 1 46 1 32 1 18 1 5 0 52	1h. 21m 1 22 1 23 1 24 1 25 1 26	7° 54′ 8 1 8 7 8 14 8 20 8 26

APRIL. = ANGLING.

A fool! a col!—I met a col! the forest. A molley fool! a miscrable world! As I dolled by food, I met a fool! "Good morrow, foel," quoth I.—SHAKSPEADE.

What merry "quirks and cranks" have we seen played on April-fool Day! What gushes of laughter have rung out, as one after another was beguiled by this harmless foolery! Who ever forgot the old sboemaker's sbop by the road-side, where we sent some withing for a pennyworth of stirrup-oil, and who invariably got thrasbed by the old cobbler's stirrup-leather? At any hour we can picture the sheepish look of the boy—see bim holding out his sancer, while a twinkling of merriment gathered about the wrinkled corners of the old man's grey eyes, as he unloosed the strap from his foot and knee; and, altbough the hardest blow he struck would scarcely have killed a fly, yet wbat roars of bearty laughter we sent forth as we saw the little simpleton scamper off, and beheld the merry shoemaker shaking his strap as he stood at his sbop-door, in the sunshine of an April morning. Then there was pigeon-milk to be scut for at the milk-bonse; and here, perhaps, the tables were turned upon us, for the youth we sent, although he pretended ignorance, took the mug and the penny, and going in at once, asked for a halfpennyworth of milk, put the other balfpenny in his pocket, then came out boldly, and said, "Here it is;" while we looked at each other, and confessed that he had made April fools of us. Then what shoes we said were untied—handkerchiefs dropped—hats crushed—black spots on the face,

which we sent them to the glass to look at-where they only got laughed at for

which we sent them to the glass to look at—where they only got laughed at for their pains.

Wicked and not always harmless errands did we also send others upon. Mr. Somebody wanted to borrow the large brewing tub, and the lender went toiling with it in a barrow: the load was almost more than he could wheel; and when he arrived at his journey's end, the pretended borrower only called him an April fool. He had his joke, and we our laugh; but never again had he the loan of the brewing tub. We sent the doctor post-haste to some one who was hearty and well, and probably busied in his garden. We had the fire-engine brought a mile or two; then laughed at the old man as we pointed out the leaden pump for him to play hon. Pigs had fallen into imaginary wells; hor es and donkeys we pounded, then laughed at the owness, who never for a moment thought of looking into their own fields or stables until they returned. Yet very rarely did these tricks provoke any anger; all was considered fair on April-fool. Day, for every one was disposed to be merry; and very often the laugh was as loud on the part of the deceived as the deceivers, and small sympathy did he obtain who lost his temper on the first of April.

Even grave sober matrons unbent their staid brows at our jokes; they recalled

Even grave sober matrons unbent their staid brows at our jokes; they recalled

the days when they also were young, and had their jokes—when they got their lovers to hunt for a necdle they had never dropped, or to stoop for a cotton-ball which was safely derosited in their laps. Such tricks seem to sit lightly, even on the conscience of old age; they bring no regrets. Though we have known a swain sent ten miles to see his sweethcart, by an urgent letter, yet the laugh they enjoyed together seemed, somehow, to sweeten the long and unnecessary journey. April-fool Day was a merry time with our forefathers, who appear never to have lost a chance of making themselves happy whenever they could.

Spring-time stirred the blood of the great father of English poetry, Chaucer. He could not lie in bed when the daisies were opening. He tells us that he then found no delight in his books; that when he heard the birds sing, and saw the flowers beginning to blow, he bade farewell to his study; that he loved the daisies above all the flowers that grew; that scarcely a morning dawned in spring but what he rose early. As he himself says:—

I am up and walking in the mead.

—I am up and walking in the mead,
To see this flower against the sun spread.
When it upriseth, early on the morrow,
That hissful sight softeneth all my sorrow.
So gled am I, when that I have presence
Offit, to do it all reverence,
As the that is of all flowers the flower,
Fulfilled of all virtue and honour,
And ever allike fair, and fresh of hne.

And ever I love it, and ever alike new, And ever I shall, till that mine heart die. There loveth no one hotter in his life, And when that it is eve I run blithe, As soon as ever the sun sinketh west, To see this flower how it will go to rest, For fear of night—so hateth she darkness. Her cheor is pleinly spread in the brightness Of the sun—for there it will nnclose.

And ever alike fair, and fresh of hne. Of the sun—for there it will nnclose. There has been a great outcry of late amongst many good and well-meaning people against the capturing and rearing of young birds. They have pronounced it barbarous and cruel in the extreme, however kindly they may be reared. Now this is a strange contradiction. Kindness cannot be cruelty, even if misapplied. Youth of both sexes who rear up birds do their numost generally to keep them alive; and we have no hesitation in asserting that an attendance upon the wants of these little chirrupers cultivates kind and affectionate feelings, softens the heart, and contributes towards the making of better men and women than they would otherwise have grown into, had it not have been for these necessary attentions. A girl will weep, and a kind-hearted boy be sorry, for the death of a favourite bird. And white such things help to refine the feelings, and are nnaccompanied by cruelty, it is surely better that a half-fledged nesting should perish, now and then, through excess of kindness, than such virtuous emotions be stiffed. We dare not put the number of young birds that are carried for, and devoured by hawks, weasels, &c., against the few that die through overnursing; although a good argument might be twisted out of such matter.

But, whatever may be said about birds, no such charge can be brought

But, whatever may be said about birds, no such charge can be brought against flowers; and as the following passage, which we wrote some years ago in praise of these "bowing adorers of the gale," has appeared in several publications without the acknowledgment of our name, we think it but justice

lications without the acknowledgment of our name, we think it but justice to claim onr own:—

"Who would wish to live without flowers? Where would the poet find his images of beauty, if they were to perish? Are they not the emblems of loveliness and innocence, and the living types of all that is pleasing and graceful? We compare young lips to the rose, and the white brow to the radiant illy; the winning eye is blue as the violet, and the sweet voice like a breeze kissing its way through the flowers. We hang delicate blossoms on the silken ringlets of the young bride, and strew her path with fragrant flowers as she leaves the church. We place them around the marble face of the dead in the narrow croffin, and they become emblems of our affections—of pleasures remembered and hopes faded—wishes vauished, and scenes cherished in memory, all the more, because they can never return. We look to the far-off spring in other vallies—to the eternal summer beyond the grave, where flowers that never fade bloom in those starry fields, which no chilly winter ever blew over. They come upon us in spring like the remembrance of a pleasant dreamavision that hovered above us in sleep, peopled with shadowy beauties and sim-They come upon us in spring like the remembrance of a pleasant dream—a vision that hovered above us in sleep, peopled with shadowy beauties and simple delights, embroidered with the richest huse of fancy. Sweet flowers!—that bring back again the scenes of childhood—faces remombered in youth—the love that knew not it was love!" Even in our rooms they conjure up langues of the mossy bank by the wayside, where we so often gazed upon the early primroses. They recal the sheltered glen, darkly green, filled with the perfume of violets, that showed like another sky amid the scene. The sweet song of the village maiden again rings upon our ears while we gaze on them, and we remember those modest eyes "that ever loved the ground," and the time we first beheld them—

Fix'd as a pilgrim's—'wilder'd in his way, Who daro not stir by night, for fear to stray, But stands with awful eyes to watch the dawn of dsy.—DRYDEN.

Who daro not stir by might, for four to stray.

But stands with awful eyes to watch the dawn of dsy.—DRYDEN.

What a mystery seems to hang about an old wood when the trees are covered with leaves, and the underwood is thick and impassable. We know not what flowers are growing in those untroden solitudes; we cannot tell what birds build and hide in those hidden coverts; what badgers, weasels, polecats, murens, and snakes burrow, hide, climb, and bask, under ground and in the hollows of trees, about the great mossy branches, and on the nuexplored banks, which accmmlated leaves, and natural water-conress, and huge fallen trees have formed. It is this very difficulty of seeing beyond the few feet ground us, that makes a wood so solemn. A hill or a moorland may be lonely, but there the view is open, whereas in the heart of an old wood all around us is d m, shadowy, greeu, and mysterious. Many of the trees are large and aged; and we feel that we are in the presence of strange things, that have grown old in light and darkness for centuries; that they have outlived all other living things, and around them there hangs a kind of reverential awe, such as makes us marvel not that in the early ages, when England was first peopled, they were worshipped by the Druids and their followers. Then we come upon deep dells, over which the gnarled and withered stem leans, and the follage darkens, and we marvel how these great hollows were first formed, for nowhere do they bear a trace of the hand of man. We know that the ancient Britons kept their corn in subterraneous places, which have slept mndisturbed through the silence of many centurirs. All traces of the work of these early excavations is buried beneath the accumulated gatherings of a thousand autumns and winters, which have cast down and rotted their leaves.

lated gatherings of a thousand addition.

rotted their leaves.

Here quivering aspens bew before the gale,
And hawthorns blossom hid in sunless shade;
The mourful ring-love coos her tender talo,
The holly's shining leaves are here display'd,
While silver birches overhaug the glade;
The towering elm shelters the dusky rook,
The hazel in green beauty is arrayed,
The alder hangeth o'er the crisped brook
In which the will-wood flowers in silence ever look.

And in such a spot the sudden starting of a large pheasant from out the deep underwood, as it goes with a loud "whur-r-r" high up amid the foliage, causes the lonely wanderer to spring back unconsciously, though he smiles the next moment

at this needless alarm.

As Angling has already commenced, we shall glance at a few of the finny in habitants of our streams and rivers; first beginning with the stickleback, with its three spines, which can either be raised or lowered at will, and which seems

fit for nothing but food for olber fishes and the amusement of b.ys. "I know not," says quaint old Izaak Walton, "where he dwells in winter, nor what he is good for in summer." He is, however, a great ornament to a glass globe; his colours are splendid; and by a constant changing of the water every two or three days, he has lived in his glass house for two or three years. The miunow, which first appears in March, although so small, has a flavour equal-to many of our more celebrated fish, especially when fried with the flowers of primroses and cowslips, and the yolks of eggs and butter—a dish delicate enough for the most imaginative of poets, though it was at one time very common. In Summer they are full of spawn, and not so good as in spring. Everybody knows that a small red worm is a sufficient bait, that three or four hooks may be used at once, and sometimes as many fish be drawn out at a time, for they always bite eagerly. The bull-head, or miller's-thumb, with its immense bead, large montb, and splny teeth, though anything but pleasant to look upon, forms an excellent dish, and those who have never tasted it will be agreeably surprised when they partake of one, and regret that they are not to be met with oftener at the fishmonger's. He is very fond of hidling under a stone, beside which, if a worm be dropped down gently, he will dart upon it in an instant, for he never stops to consider a moment about the matter if the hook is well concealed.—The loche we have often canght in the river Trent; it is a long fish, without either scales or teeth, bearded like a barbel. It is often used as a bait, especially for eels. Next in succession comes the gudgeon, which, though "little, is

The loche we have often caught in the river Trent; it is a long fish, without either scales or teeth, bearded like a barbel. It is often used as a bait, expecially for cels. Next in succession comes the gudgeon, which, though "little, is good;" it is well known to the London angler, being plentiful in the Lea river—that river of old historical associations, where English Alfred drew off the water and left the fleet of Hastings, the celebrated Sea-king, high and dry aground. It is rather a bandsome-looking fish, broad in the middle, with a beautifully marked tail and back fin, and may be caught either with worm, gentle, or paste. The bait must touch the ground. It is fond of a gravelly situation. The bleak, or whiting, is a well-known fish, always on the move; is about six inches long, with large eyes, a small head, and silvery gills: the back is of a beautiful green colour. They are famous fly-catchers, and, from their rapid motions, are called water-swallows. Two or three hooks may be used, as in minuow fishing, and the same baits as for gudgeons. The flavour is very indifferent.

The dace, dart, shallow, dare, or by whatever name it is called, is a fast breeder, and during the summer months, very partial to playing about on the sunny surface of the water. It is found in many of our rivers, and appears to prefer such spots as are in constant motion, through the rolling of rapid currents and eddies. In cold weather it prefers a quiet hole, or the sheltened part of a stream overhung by the tall water-flags or tuffed rushes. Its body is rather long, the back of palish green, varied with dusky marks, while the belly has a silvery appearance, and the fins a pale red tinge. It will almost take any bait in spring; neither worms, larvæ of beetles, grubs, caterpillars, or even water-snails, come amiss to it. They are sharp quick biters, requiring to be struck suddenly; and, as they are not to be drawn out witbout a good struggle, it is necessary to use strong tackle. Blaine makes mention of a pie made of dace and roach

use strong tackle. Blaine makes mention of a pie made of dace and roach, which seems to have been

A dainty dish to sot before a King; For when the pie was open the guests began to sing.

A dainty dish to set before a King;
For when the pie was open the guests began to sing.

And, according to his account, they would willingly have dined off such a pie, once a week, at least, as long as they lived. Roach-fishing so nearly resembles that of dace, that we shall not pause to describe it. The beautiful gold-coloured circle of the eye and the rich red fius are familiar to those who have seen the roach in good condition; nor is it to be mistaken, on account of its great breadth when laid on its side. It affords excellent sport to the angler, and has been caught from a pound to two, or more, in weight. We pass by the rudd, a fish which has led to much discussion, some considering it a species of dace, and others of carp, and come to the bream, with its high arched back, forked tall, and large eyes. When in fine condition and a good size, the bream has a rich golden colour, in place of the silvery hine it before wore. They are a cautious race, and the angler ought not to throw his shadow upon the water, but keep himself as much out of sight as possible. A warm, cloudy day is considered the mot favourable for biting, and a red worm the best of baits. He is a fish rather too fond of sucking the bait, but this can be easily detected by watching the finate for our part, we never struck in too great a hurry when we detected this half inibbling; the better plan, we think, is to let him get well hold, or go if he chooses, though it is necessary to examine the bait after his departure. We must reserve a few remarks on this old and pleusant occupation for next month.





					SUN.	-	11	MO	(1) ·							_
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D	D	TIVALS, &c.			lock. Heigh	SETS.	Afternoon	noon.	Beight	Morning.	O'Clo	ok. Ja.	O'Clock.	Morning.	Afternoon	the Da
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	Thi	Invent. of Cross. Beta Leonis souths 8h. 30m.			01541	7 26	11			3 14		多		11 33	night	123
4	F	P.M.	1 20	1	$24 54\frac{1}{2}$		4 28	10 2	Jani	3 38	21 1			No Tide.	0 27	124
5	S	[St. John.	4 28		$2954\frac{3}{4}$	7 27	5 33		$4 29\frac{1}{2}$	4 2				0 50	1 12	125
6	S	4TH S. aft EASTER	4 26	3	35 55	7 29	6 37	11 4		4 26	1 1	1200		1 33	1 53	126
7	M	East. Term ends	4 24	3	$3955\frac{1}{2}$	7 30	7 39	Mornin	1	4 53				2 10	2 25	127
8	Tu	Half Quarter.	4 22	3	$43 55\frac{3}{4}$	7 32	8 39	0 3	$4 20\frac{3}{4}$	5 22				2 45	3 0	128
9	W	Corporation and	4 21	3	47 56	7 34	9 37	1 2	$0.19\frac{1}{2}$	5 56				3 15	3 30	129
10	TH	Test Acts repealed, 1523	4 19	3	$50 56\frac{1}{4}$	7 35	10 29	2	$7 18\frac{3}{4}$	6 35				3 50	4 5	130
		Spica Virginis souths 9h. 58m.	4 17	3	$5256\frac{1}{2}$	7 36	11 16	2 5	4 19	7 19				4 20		131
12	S	[Old May Day.]	4 16	3	$5456\frac{3}{4}$	7 38	11 58	3 4	2 20	8 10		7976		4 55	5 10	132
	S	ROGATION SUN.	4 14	3	55 57	7 39	Morning.	4 2	22	9 4				5 30	5 50	133
14		The ILLUSTRATED LONDON	4 12	3	55 57 1	7 41	0 35	5 1	7 243	10 5				6 10	6 35	134
15		News was first published on May 14, 1812	4 11	3	55 571	7 42	1 7		$128\frac{1}{4}$	11 9	7777			7 0	7 27	135
	W	Zeta Boötis souths 10h. 9m.	4 10	3	54 573	7 44	î 36		$\frac{2}{32}$	Afternoon	777.7/3			8 0	8 37	
1 - 0	Tii	ASCENSION DAY.	4 8	3	53 58	7 45	2 4	7 4	. 0 0 2	1 29				9 15		136
		[Holy Thursday]	1 7	3	51 58	7 47	2 31	8 3	- 4	2 42	71112 7112 7	— 5,e			9 50	137
	F		1 5	12	49541	7 48	2 57	$9 \ 2$		3 59				10 25	11 0	138
	S	St. Dunstan.	1 1	3	$4658\frac{1}{6}$	7 49								11 30	11 55	149
	S	SUN aft ASC. DAY Arcturus souths at 10h. 10m.	4 4				3 26	10 1	. 2	5 18				No Tide.	0 25	140
21	M	P.M.	4 3	3	$42 58\frac{3}{4} $	7 51	3 59	11 1:		6 39				0 45	1 10	141
22	Tu	Trin. Term begins		3	38 59	7 52	4 37	Afternoo		7 58				1 35	1 55	142
23	W	Epsilon Bootls souths at 10h, 33m, P.M.	4 0	3	$34 59\frac{1}{4} $	7 53	5 23		4 56	9 10				2 20	2 45	143
24	Тн	Qu Vic. born 1819	359	3	$29 59\frac{1}{4} $	7 55	6 18	2 1	$5 56\frac{3}{4}$	10 14				3 10	3 35	144
25	F	Pr Helena b 1846	3 58	3	$23 59\frac{1}{2} $	7 57	7 21	3 1	7 56	11 7				3 55	4 20	145
26	S	Ox. Term ends	3 57	3	17 593	7 58	8 29	4 1.	5 54	11 50				4 45	5 10	146
1	S	PENTECOST. Whit	3 56	3	10 593	7 59	9 41	5	51	Morning.				5 35	6 , 0	147
	M	SUNDAY. Camb. Term divides.	3 55	3	3 60	8 0	10 54	6	0 47 4	0 25				6 30	6 57	148
201	Τυ	K. Chas. II. rest.	3 54	2	$56 60\frac{1}{4} $	8 1	Afternoon	6 4	3 43 1	0 54		8-		7 30	7 57	149
	W	Ember Week. Ox.	3 53	2	$48 60\frac{7}{4} $	8 2	1 12	7 3	139	1 21				8 32	9 15	150
31		Term begins	3 52	2	$40 60 \frac{1}{2} $		2 20	8 1	9 343	1 41		9		9 45 1	10 15	151
101	AII)			_	2		, 0		- 10 - 1					0 10 1	0 10	1.71

MAY.

THE SUN is in the sign Taurus till the 21st, on which day, at 5h. 18m. A.M., he enters Gemini (the Twins). On the 1st he is 95,792,000 miles from the earth. He rises on the 1st, at 12 N. of E.N.E.; and on the 25th, at the N.E. by N. points of the horizon. His times of southing, in commou clock time, and his height in degrees at the same time, are given for every day on the opposite nage.

The Moon is in the constellation Leo on the 1st and 2nd; and in Virgo from the 3rd to the 5th; in Libra from the 6th to the 8th; in Ophiuchus on the 9th and 10th; near Aquila and Sagittarius ou the 11th and 12th; in Capricornus of the 13th; in Aquarius from the 14th to the 16th; in Pisces on the 17th; in Cetus on the 18th; near both Cetus and Pisces on the 19th; in Cetus on the 20th and 21st; in Taurus on the 22nd and 23rd; in Gemini on the 24th and 25th; in Cancer on the 26th; in Leo from the 27th to the 29th; and in Virgo till the end of the month.

She rises he fore the Sun sets, till the 6th; during the night, till the 21st; and after the Sun rises, from the 22nd. She sets before the Sun rises, till the 6th; during the day, till the 21st; and after the Sun sets, from the 22nd: for the actual time, see the opposite page.

She is ou the Equator on the 3rd, on the 18th, and on the 31st. Her time of southing, in common clock time, and her height in degrees at the same time are given for every day on the opposite page.

She is near Mars and Saturn on the 18th, Uranus on the 19th, Venus on the 21st, Mercury on the 23rd, and Jupiter on the 23rd.

She is full on the 7th, and new on the 22rd, but without an Eclipse at both times.

MERCURY is in the constellation Aries till the 6th; in Taurus from the 7th to the 27th; and in that of Gemini from the 28th.

He is an evening star from the 4th; and sets on the 10th at 50m.; on the 1sth, at 1h. 24m.; on the 20th, at 1h. 50m.; on the 25th, at 2h. 3m.; and on the 31st, at 2h. 6m. after the Sun sets. These intervals of time are the longest in the year. At the end of this month, and the heginning of the next, this related is more favourably situated for observation than at any other time during the year. He sets on the 1st at the W.N.W.; on the 10th, at N.W. by N.; and on the last day, at 7° N. of N.W. by N. He is moving eastward among the stars during flue month; is near Venus on the 8th, and the Moon on the 23rd. On the 3rd he is in superior conjunction with the Sun. His motion among the stars is very rapid after the middle of the month; and his path is shown in the annexed diagram, together with his telescopic appearance at different times in the month

PATH OF MERCURY FROM MAY 12 TO MAY 31 WITH RESPECT TO THE FIXED STARS,
AND THE TELESCOPIC APPEARANCE OF THE PLANET.



The appearances of the planet are drawn upon a scale of 40 seconds of arc to one inch; and the path of the planet is on a scale of 12 degrees to one inch.

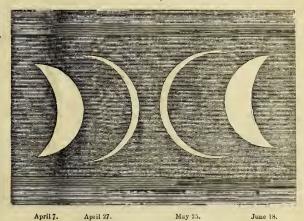
VENUS is in the constellation Taurus till the 10th, and in that of Aries from the 11th to the 31st.

She is an evening star till the 14th, and a morning star after this time. She

sets on the 1st at 9h. 27m. P.M.; on the 6th, at 3h. 49m.; and on the 14th, at 7h. 41m. P.M. She rises on the 14th at 3h. 40m. A.M.; and on the last day, at 2h. 47m. A.M. She sets, on the 1st, at \$^3 N. of N.W. hy N.; and on the 14th, at the N.W. hy N. She rises, on the 14th, at N.E. hy N.; and on the 31st, at \$^9 N. of E.N.E. She is moving slowly westward among the stars throughout the month; is near Mercury on the 8th, and the Moon on the 21st. She is in inferior conjunction with the Sun on the 12th. Her telescopic appearance undergoes rapid changes during the mouths of April, May, and Juno; as shown in the annexed engraving. The first appearance is that of the Planet about April 7; the second is that towards the end of April, the third is that towards the end of May; and the fourth is that ahout the middle of June.

TELESCOPIC APPEARANCES OF VENUS DURING THE MONTHS OF APRIL, MAY,

AND JUNE, 1849.



Scale, 40 seconds of arc to one inch.

Maks is in the constellation Pisces till the 20th, on which day he passes into etus.

He is a morning star; and rises, on the 1st, at 3h. 8m. A.M. at 1° N. of E. hy S.; on the 23rd, at 2h. 7m. A.M., at the E.; and on the 31st, at 1h. 47m. A.M. His times of southing are given below; and he sets at ahout 2h P.M. He is moving eastward among the stars; is near the Moon ou the 18th, and Saturn on the 25th.

JUPITEE is in the constellation Caucer till the 16th; and in that of Leo from the 17th.

He is an evening star, and rises between 9h, and 1 lh. A.M.; souths at an altitude of $56^\circ \frac{1}{4}$ on the 1st, decreasing to $55^\circ \frac{1}{4}$ on the last day; and sets on the 1st at 2h. 5m. A.M., at 6° N. of W.N.W., and on the last day at 0h. 13m. A.M., at $4^\circ \frac{1}{4}$ N. of W.N.W. He is moving eastward among the stars; and is near the Moon on the 27th.

JUPITEE'S SATELLITES.—The Emersions of the 1st, 2nd, and 3rd are visible those of the 1st take place at the distance of one half; those of the 2nd at the distance of one; and that of the 3rd at the distance of one and a half diameter from the body of the Planet. An Immersion of the 4th satellite takes place on the 1lth, and it disappears at the distance of one diameter. All these phenomena take place on the left hand of the Planet as seen through a non-inverting telescope, and on the right hand as seen through an inverting telescope.

SATURN is in the constellation Cetus throughout the month. He is a morning star; and rises on the 1st, at 3h. 38m. A.M.; on the 15th, at 2h. 46m. A.M.; and on the 31st, at 1h. 45m. A.M.; on the 19th he rises at the east point of the horizon; is moving eastward among the stars, and is near the Moon on the 18th.

URANUS rises a little N. of E. hy N. on the 1st, at 3h. 3m. A.M.; and on the last day at 2h. 7m. A.M. He is moving slowly eastward among the stars, and is near the Moon on the 19th.

Days of he Month.	TIMES	OF THE PASSING	PLANETS	S SOUTHI ERIDIAN.	NG, OR	JUPITER'S S	SATELLITES.	OCCULTATIONS OF STARS BY THE MOON.							
Day the M	Mereury. Morniog.	Venus. Mare. Afternoon Morning		Jupiter.	r. Saturn. 1st. Sat.		2nd. Sat, Immersion. I.	Names of the Stars	Magni-	Times of disappearance and re-appearance of the Star.	At the dark or bright limb of the Moon.				
1 6 11 16 21 26 31	H. M 11 47 Aftern. 0 33 0 55 1 15 1 30 1 39	n. M. 1 0 0 31 At noon. Morn. 11 0 10 34 10 11	H. M. 8 39 8 33 8 27 8 22 8 16 8 10 8 4	n. m. 6 26 6 8 5 50 5 32 5 15 4 58 4 41	H. M. 9 38 9 21 9 3 8 45 8 27 8 9 7 51	р. н. м. 5 10 40 г.м. Е. 21 8 59 г.м. Е. 28 10 55 г.м. Е.	D. H. M. 9 10 51 P.M. E. 3rd Sat. 26 11 26 P.M. E. 4th Sat. 11 10 14 P.M. I.	95 Virginis Kappa Virginis Eta Libræ 13 Virginis Eta Virginis	6 4 4 ¹ / ₂ 6 3 ¹ / ₂	D. H. M. \$ 5 10 25 P.M. \$ 5 11 25 P.M. \$ 6 3 8 A.M. \$ 6 3 42 A.M. \$ 7 11 15 P.M. \$ 8 0 35 A.M. \$ 30 10 0 P.M. \$ 30 10 26 P.M. \$ 30 10 26 P.M.	Dark Bright Bright Bright Dark Dark Bright Dark Bright Bright				

TIMES OF CHANGES OF THE MOO		ME	RIGHT ASCENSIONS AND DECLINATIONS OF THE PLANETS. MERCURY. VENUS. MARS. JUPITER. SATURN. URANUS.										
gee), or at her least distance (Perigee), from t Earth in each Lunation.	e Daye	Right Ascension	Declina- tion North.	Right Ascension	Declina tion North,	Right Ascension	Declina tion South.	Right Ascension Declina tion North	R'ght Ascension South	Ascension tion			
FULL MOON 7D. 7H. 7M. A. LAST QUARTER 15 10 30 A. NEW MOON 22 7 37 A. FIRST QUARTER 28 11 23 P. APOGEE 9 9 0 P. PERIGEE 22 6 0 P.	6. 6. 11 6. 16 6. 21	2h, 24m 3 6 3 49 4 32 5 11 5 45	13° 47′ 17 51 21 17 23 46 25 12 25 39	3h 38m 3 28 3 17 3 5 2 55 2 49		23h.16m 23 30 23 44 23 58 0 12 0 25	6° 22′ 4 54 3 25 1 56 0 27 North.	9h. 4m 17° 45 9 6 17 35 9 8 17 36 9 10 17 20 9 12 17 16 9 14 16 55	0 17 0 28 0 19 0 1 0 21 0 0 0 22 North	3 1 29 8 39 7 1 29 8 44 3 1 30 8 50			

MAT. = MAY-DAY GAMES.



Hatk 'how Delight

Knocks with her silver wings at every sense,

For merry May her pastimes doth condense.

Hatk' how the peasative, with their music loud,

Raise many an ancient disty; while a crowd

Of anow-clad maidens, crowned with garlands gaw,

Are tripping lightly round the Queen of May.—Cleveland's May-Day.

One of the oldest and most poetical of all our country amusements was the eelebration of May-day. Mention is made of it by our earliest chronicles and poets;
and so great is its antiquity, that the very origin is lost. Some believe that it is
a custom which has descended down to us from the times of the old Druids:
others, that it was introduced into England by the Romans. But, as it is not,
mentioned by any historians who have recorded the manners of that period, I
shall leave the matter to rest where it is; for it is sufficient to know, that, four
or five hundred years ago, May-day was a great holiday in England. Our fore fundered years ago, May-day was a great holiday in England. Our for the times were great lovers of nature, had more holidays than we have now, and had
few of those in-door amusements which we possess; and I have always considered May-day as one of those joyous celebrations with which they welcomed
the return of spring—the season which brought back the birds, and flowers, and
long green leaves, and threw open once more, as it were, the gates which led to
make the matter to rest where it is; for it is sufficient to know, that, four
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the return of spring—the season which brought back the birds, and flowers, and
long green leaves, and threw open once more, as it were, et he gates which led to
make the first when they could, on the darkening hedges, point out
the treat was introduced the My blossoms would be huag, when the daises were
a custom which has descended down to us their grammats; when they could, on their grammats; when they could, on the term of priming like an Surre cloud that had fallen for the very support where the My blossoms would be huag; when the daises were
a custom which has d

Young folk now flock in overywhere,
To gather May-bushes and smelling bree,
And home they haslen, the posts to dight,
And all the church pillars, ose daylight,
Wilb hawthorn-buds, and sweet egiantine,
And garlands of roses, and sops of wine.
Even this marning—no longer ngo,
I saw a shoal of shepherds out go,
With singling, and shouting, and jolly cheer;
Before them went a lusty tabourer,
That unto namy a harmjipo play'd
Whereto they danced, each one with his maid.

To see these folks making such joyanco, Mado my heart after the pipe to dance. Then to the green wood they speed them all To fotch home May, with their musical: And home they bring him in a royal

And home they bring him in a roy throne, Crowned as king; and his queen, fair one, Was Lady Flora, on whom did attend A fair flock of fairies, and a fresh band Of tovely nymphs. O that I were there, To help the ladies their May-bush to bear.

On the villago green, the tall May-pole was reared, amid merry shouts and loud huzzas, and the deep sounding of music; they built up arbours out of the branches they brought from the forest; they decorated the fronts of their honses with boughs; and on the tall May-pole hung many a garland of beautiful flowers. A bower was placed at the head of these arbours, which stood higher than the others. Within and without it was decorated with flowers, and set apart for the Queen of May, who was, generally, some peasant girl, selected by the unanimous consent of her companions. Sometimes the daughter of the Lord of the Manor presided as May Queen, and the whole family issued from their old appears the lit to join in May, who was, generally, some peasant girl, selected by the unanimous consent of her companions. Sometimes the daughter of the Lord of the Manor presided as May Queen, and the whole family issued from their old ancestral hall to join in the May-day games. Then there were rustic youths dressed up in the costume of Robin Hood and his merry men, and Maid Marian; recalling the days of old, when these daring outlaws were the dread and pride of Sherwood Forest, plundering the rich to feed the poor; and chasing the dun deer through the thickets, in spite of Norman keepers and cruel forest-laws.

in spite of Norman keepers and cruel forest-laws.

It was a season of rejoicing throughout the length and hreadth of the land. Nor was London a bit behind in the celebration of this ancient festival. Even in the City, the tall May-pole was erected; and any one who had passed along Cornhill on May-day a few centuries ago, would have seen green arbours erected there, and huge oaken houghs hanging over the street, and the milk-maids, and all the merry old citizens, with their wives, daughters, maids, and apprentices, congregated about the May-pole, many of them dressed in old fanciful costnmes, and giving themselves up to all the fun and jollity of May. But time has not preserved even the names of the mazy measures which they danced; and nearly all we know of the ancient pipe and tabor, the favourite music to which they timed their footsteps, is gathered from glancing at some scarce engraving. "Gone are the days of Gamelyn." "The May-pole," says an old writer, "was consecrated to the Goddess of Flowers, and the garlands were left upon it the whole year, without being disturbed by any one;" and I well remember passing through a village, at the end of April, in which a tall May-pole stood, only a few years ago, and seeing the last year's garlands hanging npon it, all wan and withered, and heaten by the storms of the past winter.

In those times, it seems to have been a custom to set out for the woods soon after

interest the solution of the passes of the creation of the woods soon after midnight, so that by sunrise the May-pole was felled, and the branches gathered, and the procession ready to start, on its way home. In a book written during the reign of Queen Elizabeth, it is stated that sometimes as many as forty yoke of oxen, each having a sweet nosegay tied to the tip of his horns, were employed to draw home the May-pole; that they covered it all over, from top to hottom, with flowers and sweet herbs, which they bound round with strings; fastening, at equal distances, cross bars upon it, to the end of which they attached garlands; and thus decorated, it was hoisted up, amid the leaping and dancing and joyous shouts of the assembled multitude.

A sum of money was allowed in those days for the crection of green arhours around the May-pole. The King and Queen, or Lord and Lady of May, as they were called, were dressed ont in scarfs and ribhons, and plumes of feathers, and made as fine as it was possible to array them.

Ilenry the Eighth, one morning in May, attended hy several of his nohles, dressed in the quaint costume of Rohin Hood and his merry men, suddenly entered the chamber where the Queen and her ladics were seated, much to the alarm of the latter, who were thus taken hy surprise; for it appears that the King and his followers were armed with hows and arrows, and swords and bucklers, like the outlaws of old; and fine screaming there was, no doubt, amongst the Queen and her ladies, when their apartment was broken into by a troop of srmed men; who, however, instead of carrying them off, like the ancient free-booters of the forest, and keeping them prisoners under the greenwood tree until they paid down a handsome ransom in gold, contented themselves hy performing several wild woodland dances, then taking their departure.

Tho same Monarch, also, once rode out with his Queen and a whole concourse of nobles, one fine May morning, to the top of Shooters-hill, ahove Greenwich, and there they were received by a larg

where a large arbour was creeted of green boughs, consisting of a hall and two chambers, all decorated with flowers and sweet herbs; and here a mighty feast stood ready prepared, quite in keeping with the scene, consisting of venison, venison-pasties, and a copious supply of the blood-red wine, for such, the old hallads say, often formed the forest-banquet of Ptohin Hood and his merry men. A joyons May-day must that have heen, presided over hy the King and Qucen of England; for Henry the Eighth was theu a young man, greatly beloved by his people; and in the laughing merry Monarch who presided over that woodland repast, who drank deep healths to the Lord and Lady of May, and was the foremost to lead off the joyons dance in that summer hall, roofed over with green branches,—few would have traced the future murderer, or read in the entlines of the then jocund Monarch the cruel heheader of so many of his wives. For the Royal tiger seemed then as harmless and playful as a lamb; and those who were around him but little dreamed that his memory ever after, throughout all time, would he preserved in one of the darkets stains that ever fell, and lay an eternal hlot upon the pages of history.

On their return from this woodland hanquet, they were met hy two ladies, richly attired, who rode in a beautiful chariot, drawn by five horses; and on the hack of each horse was also scated a lady, one of whom was called the Lady of Showers; another, the Lady of Green; the third, the Lady of Vegetation; the fourth, of Pleasure; and the fifth, of Sweet Odour. Of the two who occupied the chariot, one was called the Lady of May, and the other the Lady of Flowers; and they entertained the assembled company with songs, as they returned to Greenwich. Such was an English May-day in the reign of Henry VIII.

But few works are fraught with more amusement than our old English treatises on angling: there is such a simple cunningness ahout these honest old fishermen, that it is difficult to refrain from laughter while perusing the most scrious where a large arbour was erected of green boughs, consisting of a hall and two chambers, all decorated with flowers and sweet herbs; and here a mighty feast

full of humble thoughts, when occasion offers; to kneel, lie down, or wet his feet and hands, as often as there is any advantage to be gained thereby: nor is he to mind "a little dirty water or mud," if he can get anything out of it. He is also advised to render himself skilful in music, so that whenever his spirits are melancholy, or his thoughts heavy, "he may remove the same with some godly hymn or anthem, of which David gives many examples." Again, he is to be strong and valiant, not to be amazed at storms, nor frightened at thunder. Nor must he, "like the fox which preyeth upon the lambs, employ all his labour and enuming on the smaller fry; but, like the lion that seizeth elephants, think the greatest fish that swims a reward little enough for the pains he endures." He must also "be patient, not feel evaxed when he loses his prey, although it is almost in his hand." Neither must he swear: and we still retain the old saying, "those who swear will catch no fish;" hesides it would hardly have been the thing to have ripped out a thundering oath, after having chaunted some "godly hymn or anthem." The angler also ought to be "a scholar and a good grammarian," as, no doubt, the fish being an ancient people, and from the earliest ages acquainted with respectable society, must have felt had gramfull of humble thoughts, when occasion offers; to kneel, lie down, or wet a good grammarian," as, no donbt, the fish being an ancient people, and from the earliest ages acquainted with respectable society, must have felt had grammar grate again upon their ruddy gills. Further, he must have sweetness of speech, to entice others to follow his art; have also a knowledge of the sun, moon, and stars; be conversant with wind and woather; and have a constant and settled beliet that where "the waters are pleasant and anything likely, there the Creator of all good things hath stored in much of his plenty." How religiously did these old rascels set about a little quiet murder! thanking Heaven when they succeeded, and, as Cromwell said, "had good evention." execution

But we must not forget the business on hand, which is to continue our romarks

But we must not forget the business on hand, which is to continue our romarks on angling from April; and these must necessarily be brief. From early spring, until the close of autumn, perch angling is pursued; they are very fond of lingering in shadowy places, as hridges, old mill-dams, and flood-gates, and such like quiet spots, where they readily take the bait. The perch is a beautifully marked fish; the back and a portion of the sides are of dark green, varied with black, while the belly is white and red. In form it is deep, arched, and has a large mouth, with rich golden irides. It will bite greedly at a worm.

As there are so many kinds of trout, I must confine myself to the common one, which is generally from twelve to fifteen inches in length, is of a dirty yellow colour, brownish on the back, and spotted. Early in spring the trout will take a ground hait, for which nothing can be better than a worm. Fly-fishing for trout would occupy the whole space we dedicate to the description of the month, so we must pass it by. Remember, in fishing for trout, to keep out of sight; once throw your shadow upon the water, and away the shy visitor good. As soon as you havo landed a trout, kill it—a sharp blow on the head is pretty sure to finish it; and this is better than leaving it to pant on the grass, or gasp in your fishing hasket, to say nothing of the richness added to its flavour. The grayling is fond of clear, rapid streams, especially such as flow through hilly countries. It is rather less than the trout, beautifully formed; the head small; the eyes prominent, and circled with silver; the teeth very small; the head countries. It is rather less than the trout, beautifully formed; the head small; the eyes prominent, and circled with silver; the teeth very small; the head a dusky colour, and the gills a bright green, which in time become dark. The back is of a greenish blue tinge; the sides of the richest silvery grey, though when first caught glittering in the sunlight like gold, and almst gaudy, through the rich dark irregular spots which dot the shifting silver. It is a rapid swimmer, and is lost to the eye in a moment. When full-grown, it is about fifteen or sixteen inches in length; and although taken all the year round, is not considered in season until September, and from then to February or the middle of spring. At the latter season, they will take almost any balt used in hottom fishing, such as worms, gentles, grubs; nor are they at all particular, if they have had a narrow escape from the hook, of attacking the hait again, even with a torn jaw. The tackle ought to be fine. The fiesh is an particular, it they have had a narrow escape from the nook, of attacking the hait again, even with a toru jaw. The tackle ought to he fine. The flesh is very white, and the flavour highly prized. "No life," says Walton, "is so happy and so pleasant as the life of a well-governed angler: for when the lawyer is swallowedup with business, and the statesman is preventing or contriving plots, then we sit on cowslip hanks, hear the hirds sing, and possess ourselves in as much quietness as the silent silver streams which we see glide so smoothly by ""





SUN. MOON, II NURATION OF MOON LICHT													
	1	ANNIVERSARIES, OC-	SUN.		MOON. Souths.				DU	RATION OF M	HIGH WATER 2		
M	W	CURRENCES, FES-				RISES.			Sers	Before	Sunrise. 2 .	After Sunset.	AT LONDON BRIDGE.
D	D		RISES	Before 13	SETS.	Afternoon	After- noon.	Height above	Morning.	0'C	Sunrise. Nu out	O'Clock. 9h. 10h. 11h.	Morning latternoon
l _										1h. 2h, 3h, 2		9n. Ion. III.	i
1	F	Nicomede	3 51	м. s. Deg. 2 31 60 ½	и. м. 8 4	3 25	9 3		2 9		10		10 50 11 20 152
				2				071			ii		
2		P.M.	3 50	$\frac{2}{3}$ $\frac{22}{60}$ $\frac{3}{4}$	8 5	4 28	9 47	14/4	2 32		12		11 55 No Tide. 153
3	3 5	TRIN. SUNDAY	350	$2\ 13\ 60\frac{3}{4}$	8 6	5 33	10 32	2-1	2 57		13-		0 15 0 40 154
4	1 1	Spica Virginis souths at 8h, 24m, P. M.	3 49	2 3 61	8 7	6 22	11 17	$ 21\frac{1}{2}$	3 25	l			1 2 1 25 155
1	T		3 49	1 53 61	8 8	7 31	Morning.	$ 19\frac{1}{2}$	3 57	_ _			1 45 2 0 156
(7 C	Eta Boötis souths at	3 48	$14261\frac{1}{4}$	8 9	8 25	0 4	$ 18\frac{3}{4}$	4 34		200		2 20 2 40 157
1 7	7	Corpus Christi	3 47	$1 \ 3161\frac{1}{4}$	8 10	9 16	0 51	$ 18\frac{1}{2}$	5 16				2 55 3 10 158
1 8	3 I	Arcturus souths at 8h. 59m.	3 47	$1 2061\frac{1}{2}$	8 11	9 59	1 39	$ 19\frac{1}{4}$	6 3		15 16		3 30 3 45 159
9) 5	Epsilon Boötis souths at	3 46	$1 9.61\frac{1}{9}$	8 12	10 38	2 20	21	6 56		18		4 0 4 20 160
10		- 0 0 5	3 46	$0.5761\frac{2}{3}$	8 12	11 11	3 14	231	7 55		19		4 35 4 55 161
1	ıñ	I St. Barnabas	3 45	0 45 613	8 13	11 40	4 1	26	8 57		2.9		5 10 5 30 162
1 12	2 T	Trin. Term ends	3 45	$0.33 61\frac{3}{4}$	8 14	Morning	4 48	30	10 4		21		5 50 6 10 163
1.	\bar{v}	Bcta Libra souths at 9h 39m.	9 45	$0.2161\frac{3}{2}$	8 15	0 8	5 35	345	11 12		Design Comment		6 40 7 0 164
14	1 T	TD 447 C ()	3 45	0 861	8 16	0 33		$39\frac{1}{4}$			2		7 30 8 0 165
l i	5 1	Alpha Serpentis souths at		After 12 6 1 3	8 16	0 57	7 11	44	1 36		24		8 30 9 10 166
1	6 8	Antares souths at 10h 39m	3 44	O CIOCA.	8 16	1 27	8 2	481	2 52		225		9 40 10 15 167
l i	7	4 104	3 44	0 30 62	8 16	1 55	8 56				26		10 45 11 15 168
1		1 B. Waterloo, 1815	11	0 43 62	8 17	2 30	9 53	-4	5 29		27		11 45 No Tide. 169
i	- 15		3 44		8 18	3 10	10 53		6 45		28		0 15 0 45 170
20		V Acces. Queen Vic.	3 44		8 18	3 59	11 55	1 2	7 55				1 10 1 37 171
2	1 T	70 1	3 44		8 18		Afternoor	1			罗蒙 百		2 2 2 30 172
2			3 45		8 19	6 8	2 0		9 45		6		2 55 3 22 173
$\frac{1}{2}$		and Paris in a state of			8 19	7 20		$52\frac{3}{5}$	10 25	7/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1			3 45 4 10 174
0		siege, 1848	0 40			8 34	$\frac{2}{3} \frac{50}{52}$	101	10 59	<i>77.77</i>			4 35 5 0 175
2	1 5	3RD S. aft. TRIN.	3 45		8 19			454	11 26				
	0 1	Alpha Ophiuchi souths at		1 7 7 7 7 7 7 7	8 18	9 48	4 43	I			5		
2	o 1	t Geo. IV. d., 1830	170	1	8 18	10 58	$\begin{bmatrix} 5 & 31 \\ c & 12 \end{bmatrix}$	402	11 51		5		6 10 6 35 177
2	7 1	11h. 29m. гм.	3 46		8 18	Afternoon	6 17	36	Morning				7 3 7 30 178
		н Q. Vic. cro. 1838	11	$252 61\frac{3}{4}$	8 18	1 15	7 1	$32\frac{1}{4}$	0 14				8 0 8 30 179
2			3 48		8 18	2 10	7 45	1 2	0 38				9 0 9 35 180
3	0 8	Alpha Lyræ souths at	3 49	$\frac{1}{3} \frac{3}{16} \frac{3}{61} \frac{3}{4}$	8 18	3 24	8 30	$125\frac{1}{4}$	1 2				10 5 10 30 181
1													

The Sun is in the sign Gemini till the 21st, on which day, at 2h. 8m. p.m., he enters the sign Cancer (the Crab), and Summer commences. On the 1st day he is 96,378,000 miles from the Earth. He rises on the 1st, at 10½ N. of N.E. by N.; on the 13th, at 30½; on the 22nd at 4°; and on the 31st, at 30½ N. of the same point of the horizon. He sets, on the same days, at 10½; at 30½; at 4°; at 30½ N. of N.W. by N. points of the horizon. His times of southing, in common clock time, height in degrees at the same time, are given for every day on the

and his height in degrees at the same time, are given for every day on the opposite page.

The Moon is in the constellation Virgo on the 1st and 2nd; in Libra, on the 3rd and 4th; in Ophiuchus, on the 5th and 6th; skirting both Aquila and Sagittarius, from the 7th to the 9th; in Capricornus, on the 10th; in Aquarius, on the 11th and 12th; in Pisces, on the 13th and 14th; in Cetus and Pisces alternately, till the 17th; in Taurus, from the 18th to the 20th; in Gemini, on the 21st and 22nd; in Cancer, on the 23rd; in Leo, from the 24th to the 26th; in Virgo, till the 26th; in the 18th to the 26th; in Virgo, till the 26th; in Cetus and the 30th.

22nd; in Cancer, on the 23rd; in Leo, from the 24th to the 26th; in Virgo, till the 29th; and in Libra, on the 30th.

She rises before the Sun sets, till the 5th; during the night, till the 15th; and after the Sun rises, till the 20th; Alba sets before the sun rises, till the 4th; during the day, till the 20th; and after smuset, from the 21st. For the actual time, see the opposite page. She is on the Equator on the 14th and on the 27th. Her time of southing, in common clock time, and her height in degrees at the same time, are given for every day on the opposite page.

She is near Saturn on the 14th; Mars and Uranus, on the 15th; Venns, on the 17th; Mercury, on the 21st; and Jnpiter, on the 24th.

She is full on the 5th, and new on the 20th; but without an Eclipse at both times.

times. Merchen is in the constellation Gemini throughout the month. He is an evening star till the 25th; and sets on the 1st, at 2h. 5m.; on the 5th, at 1h. 58m.; on the 10th, at 1h. 39m.; on the 15th, at 1h. 12m.; on the 20th, at 40m.; and on the 25th, at 5m. after the sun sets. He is very favourably situated for observation at the beginning of this month. He sets on the 1st, at $6^{\circ\frac{3}{4}}$ N. of N. W. by N.; on the 18th, at N.W. by N.; and on the last day, at $7^{\circ\frac{1}{4}}$ N. of W.N.W. He is moving eastward among the stars from the 1st to the 15th; he is stationary on the 16th and 17th; and is moving westward from the 18th to the 30th. He is near the Moon on the 21st. On the 3rd he is at his greatest east elongation; and on the 30th is in inferior conjunction with the Sun. His motion among the stars, and his relative position to the principal stars near him, are shown in the annexed cut.

TH OF MERCURY AMONG THE STARS, DURING THE MONTH OF JUNE, 1849.



VENUS is in the constellation Arles till the 2ist; and in that of Taurus from the 22nd.

the 22nd.

She is a morning star throughout the month; and rises on the 1st, at 2h. 44m.

A.M.; on the 17th, at 2h. 3m. A.M.; and on the 30th, at 1h. 34m. A.M.; at the E.

N.E. on the 9th; and 2° N. of E.N.E. on the 30th. She is stationary among the stars on the 1st and 2nd; and is moving eastward among them from the 3rd to the 30th. She is near the Moon on the 17th; is at the greatest brilliancy on the 18th; and in aphelion on the 30th.

Mass is in the constellation Cetns till the 5th; in that of Pisces, from the 6th to

Has is in Cetus again, till the 28th; and in Aries, from the 29th.

He is a morning star; and rises on the 1st, at ih. 44m. A.M., at 40½ N. of E.; on the 16th, at 1h. 4m. A.M., at E. by N.; and on the 30th, at 0h. 28m. A.M., at 6° N.

of E. by N. His times of southing are given below; and he sets at about $2\frac{1}{2}h$. P.M. He is moving eastward among the stars; is near the Moon on the 15th, at midnight, aun Uranus on the 21st.

TELESCOPIC APPEARANCE OF THE PLANETS, IN JUNE, 1849.



Scale, 40 seconds of arc to one inch

JUPITER is in the constellation Leo throughout the month.

He is an evening star; rises between 7h. and 9h. A.M.; souths at an altitude of 55° 4 on the ist, decreasing to 55° 3 on the last day; and sets on the ist, at 0h. 9m. A.M., at 4° 4 N. of W.N.W.; and on the last day, at 10h. 26m. A.M., at 2° N. of W.N.W. He is moving eastward among the stars; and is near the Moon on

the 24th.

On looking at Jupiter through the telescope, four little stars are also seen, which follow him in his orbit as the Moon follows the Earth. They are distinguished from one another by the denomination of first, second, third, and fourth, according to their relative distances from the planet: the first being that which is the nearest to him; and the fourth being that which is the mearest to him; and the fourth being that which is the most distant. Their apparent motion is like that of a pendulum, passing from their greatest elongation on one side, to their greatest elongation on the other. As these satellites move round Jupiter, Eclipses of them frequently happen, particularly of the 1st and 2nd, more rarely of the 3rd, and occasionally only of the 4th, on account of its distance from the planet causing it, sometimes, to pass above or below the shadow. Their relative frequency will be seen at the bottom of every page, as the times of their occurrence are noticed in every month. They are easily seen through a telescope, when Jupiter is at a sufficient distance from the planet, which distance depends on the relative istuations of the Sun, Jupiter, and the Earth; but they always happen on that side of Jupiter where the shadow of the planet, which distance depends on the relative istuations of the Sun, Jupiter, and the Earth; but they always happen on that side of Jupiter where the shadow of the planet is known to be. Whilist Jupiter is passing from his conjunction to his opposition to the Sun, the immersions of the 1st and 2nd satellites only are visible; and whilst he passes from his opposition to his conjunction, the emersions only are visible, Sometimes the 3rd and 4th disappear, and then re-appear on the same side of the planet; and the time elapsed between these phenomena is exactly that which it is known the satellite would be in passing a distance equal to the planet's shadow. At the time of opposition, the Planet, the Earth, and the Sun are in the same straight line, and therefore the shadow of Jupiter is in the same line, and the Eclipsestake place when the satellites are close to the planet. These circumstances will be best understood by reference to the diagram in the month of February.

JOPITER'S SATELLITES.—An Emersion of the 2nd alone is visible. It appears at about two-thirds of the diameter of the Planet, to the right as seen through a non-inverting telescope, and to the left as seen through an inverting telescope.

SATELN is in the constellation Cetus throughout the month.

SATURN is in the constellation Cetus throughout the month.

He is a morning star; and rises on the 1st, at 1h. 41m. a.m.; on the 15th, at 0h. 48m. a.m.; and on the 30th, at 1h. 50m. r.m., at a little N. of E. on every day. He moves very slowly eastward among the stars till the 15th, and is stationary among them during the remainder of the month. He is near the Moon on the 14th and 15th.

UBANOS rises about 4° N. of E. by N.; on the ist, at 2h. 3m. A.M.; and on the last day, at 0h. 1im. A.M.. He is moving slowly eastward among the stars; is near the Moon on the 16th, and Mars on the 2ist.

ON PLANETARY PHENOMENA.

The annual revolution of the Earth in its orbit about the Sun produces a change in the aspect of the heavens from time to time. By a little attention, it will be seen that the stars which are situated in the east during the evening, appear to be higher each successive evening, as viewed at the same time.

(Continued in July.)

Days of the Month.	TIMES OF THE PLANETS SOUTHING, OR PASSING THE MERIDIAN.						JUPITER'S SATELLITES.					OCCULTATIONS OF STARS BY THE MOON.							
M. M.	Mercury.	Venus.	Mars.	Jupiter.	Satur	,	Eclipses of						1-4	Times of disappearance of the and re-appearance of the Star. At the carl or hright lim of the Moon.					
the	1			_		186 54		· _	2nd. Sat.		Nam	Names of the Stars.		Times of disappearance and re-appearance of the			or hright limh		
	Afternoon	Morning.	Morning.	Afternoon	Morni	ng.			Eme	nersion.			X	5	Star.	02 1110	Moon.		
1 6 11 16 21 26 30	H. M. 1 40 1 41 1 34 1 19 0 56 0 27 At noon.	H. M. 10 7 9 49 9 34 9 22 9 13 9 5 9 1	H. M. 8 3 7 57 7 51 7 45 7 39 7 32 7 27	H. M. 4 37 4 21 4 4 3 48 3 31 3 15 3 2	7 7 6 6 6	M. 147 229 10 A 52 33 14 59	re not vis	ble.	р. н. м 10 10 32		h¹ Aquarii Nu Piscium 38 Virglnis			$ \begin{array}{c c} 6 & \begin{cases} 13 \\ 13 \\ 16 \\ 16 \\ 27 \end{array} $	2 57 A.M. 3 15 A.M. 3 48 A.M. 4 47 A.M. 0 0 P.M. 0 45 P.M.		Bright Dark Bright Dark Dark Dark Bright		
TIM	TIMES OF CHANGES OF THE MOON.						RIGHT ASCENSIONS AND DECLINATIONS OF THE PLANETS.												
					of the	MER	MERCURY, V			ENUS. MARS.		JUPITER.		SATURN.		URANUS.			
And when she is lat her greatest distance (Apo- gee), or at her least distance (Perigee), from the Earth in each Lunation.				Days	Right Ascension	Declina- tion North,	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North,			
LAST NEW		13	3 10 2 7 10 4 5 3	27M. P.M. 24 P.M. 19 P.M. 44 A.M. 0 A.M. 0 A.M.	1 6 11 16 21 26	6h. 19m 6 40 6 53 6 58 6 54 6 45	25° 11′ 24 14 22 58 21 35 20 17 19 15	2h. 46m 2 48 2 53 3 0 3 11 3 23	15° 0′ 14 15 13 56 13 59 14 19 14 53	0h. 42m 0 56 1 9 1 23 1 37 1 50	2° 47′ 4 13 5 38 7 2 8 22 9 41	9h. 18m 9 20 9 23 9 27 9 30 9 33	16° 44′ 16 30 16 16 16 1 15 44 15 27	0h.26m 0 27 0 28 0 30 0 30 0 31	0° 23′ 0 30 0 37 0 42 0 47 0 51	1h. 33m 1 34 1 35 1 35 1 36 1 37	9° 7' 9 11 9 15 9 19 9 23 9 26		

JUNE.-WHITSUNTIDE PROCESSIONS.



When the merry bells ring round, And the jocund robecks sound, To many a youth and many a maid Daneing in the chequer'd shade, And young and old come forth to play On a sunshine holiday—MILTON.

WHETHER Whitsuntide falls in May or June, it is always a season of greatestivity; and, since so msny old customs are dying away, we may consider it our greatest Englisb holiday. In the country, nearly every club has its procession and feast at Whitsuntide; and almost every village and town is sounding with music; and in some large places half a dozen clubs may be seen marching to church, each with its band and banners, and every member in his holiday attire. We, who are dabblers in old black-letter lore, look upon these benevolent and nseful institutions with great interest, knowing that such clubs or guilds, existed in England a thousand years ago—that the Saxons had their sick and burial societies, and that every brother who did not attend a funeral was then fined as now. According to these old Saxon laws, when a member died he was to be buried wherever he had desired; and, if any brother neglected to attend, he was fined a measure of honey: the club was to furnish half the refreshments consumed at the funeral, and each member was to pay twopence—a large sum, considering the value of money in those days, when a sheep could be purcbased for a shilling, an ox for six, and four hens for sixpence. It is this very antiquity which renders these benefit societies so interesting in our eyes;

and as we know that they had their merry meetings as well as their "funeral marches," we never look upon them as they go "sounding through the town," without thinking that, above a thousand years ago, similar processions passed along the ancient streets of Saxon England.

Ob! what a jingling of bells is there on the morning of Whit-Monday. What a running to and fro from house to house—for the women have in many places their clubs as well as the men, and they are probably all going in procession to the same church. Nanny ruus in to ask Betty how she leoks in this or that; if her new gown "sits" nicely, or she should trim her cap with blue or pink; for it must be understood that uo bonnets are allowed in the procession; if it rains, umbrellas may be carried. We shall commence with the ladies first. White dresses are, of course, prevalent, though they are agreeably relieved here and there with a gown or two of gaudy colours. The ladies who hold office walk behind the band, each carrying a neat white wand, adorned with ribbons and flowers; every fair member also bears a beautiful posy; you almost wonder where so many flowers could be gatbered; but what they carry with them is nothing compared to the quantity which decorate the club-room in which they

will take tea in the afternoon. Gravely, stately, and good-humouredly do they proceed along, the single ones looking down as if ashamed, and seldom venturing to raise their eyes if passing by a house they are in the hahit of vi-iting. Not so with the married women. They are on the look-out to acknowledge everyhody they know; and at every recognition there is such a waving of handkerchiefs that you might almost fancy they were about to proceed on a very long journey, and were bidding farowell to their acquaintance. But the most amusing part is the children. They are stationed on every step or little eminence, the higger brother or sister holding a lesser one in arms, and looking out eagerly for mother. The mother is all to them, and she also is watching as anxiously. At last you hear the little voices exclaim, "Here she comes!" "There she is!" "That's her!" and she is sure to rush out of the ranks to give them something out of her pocket; and no end of kisses, with numberless admonitions to take care of themselves, and so on. And many a turn of the head will she give before she is out of sight. Among such processions as these we have seen faces and forms that would have arrested the eyes of both painter and sculptor, and shown them that the heautiful belongs not alone to either antiquity or Greece. We have also seen the hair arranged in such a chaste style, and so gracefully adorned with natural flowers, that many a haughty heiress would have been proud to have rison with her ringlets so arranged from the hands of a fashionable have riscn with her ringlets so arranged from the hands of a fashionable tiring-woman.

Their overpowering presence made you feel It would not be idolatry to kneel.

Their overpowering presence made you feel
It would not be idolater to kneel.

But, hang, bang! tirra, tirra! here they come—the "United Brothers."

But, hang, bang! tirra, tirra! here they come—the "United Brothers."

But, hang, bang! tirra, tirra! here they come—the "United Brothers."

But, hang, bang! tirra, tirra! here they come—the "United Brothers."

But, hang, bang! tirra, tirra! here they come—the "United Brothers."

But, hang, bang! tirra, tirra! here they come—the "United Brothers."

But, hang, bang! tirra, tirra! here they come—the end id. It would handly he damissible into the British Institution—but let that pass; were any one to venture to criticise the performance, he would he indignantly told that it cost ahovo twenty pounds. Altbough the tailor is a little out of both time and tune, yet he hlows lustily at the clarionet; and the young butcher is not to he found fault with, considering he has, only practised on the hugle for about twelve months. What a jolly fellow that is who shakes the cymbals—his very eyes laugh again; what a clashing he makes; he cares nothing about time; "Make yourself heard, neighbour," is his answer. You can tell from his looks that he has already been busy with the ale-cup, and that he is not the only one. And those are the stewards. "Deary me!" exclaim the women, "who ever would think that was Trippet, the tripe-seller; or the other, Johnny Lee, who goes round repairing umhrellas?" hut they are though; and are resolved to let you see what they can do when they choose: a nod from either of them is something to be thought of to-day, I can tell you; for they are the stewards, and were elected for the first time at the last meeting. Next cluh-feast-day two others will march, with the same stateliness, in their places. When Trippet and Lee have served their twelve-month, should they live fifty years after, everything they can remember will be recalled either as having transpired so many years hefore or after they were the stewards.

Bang, hang! All the windows are up: the who

month, should they live hity years after, everything they can femember will be recalled either as having transpired so many years hefore or after they were the stewards.

Bang, bang! All the windows are up; the whole street is crowded; women with children in their arms, and hoys and girls, close in and follow the procession: tho men walk two and two—there is ahont a yard's space hetween each couple. What a length the procession reaches! There are at least one hundred memhers "strong;" and the latter word is pronounced with something like an emphasis. True enough, they march oddly; a few are very careful, but these, no dount, are younger memhers; the old United Brothers seem to jog along "cheek by jow!" anyhow as they cam—they look as if they were used to it; they wear their honours without blushing, some, you see, with a flower held hetween the lips. This is very common in the country; every one has a posy in the hutton-hole of his coat, for that is in accordance with cluh orders. Now they near the chnrch; they will never be able to get that large hanner within the porch—but they have: it required great care; and there will be a good deal of talk ahont after how the wind caught it at this corner, and how they stageered at that, and you would go away with an idea that a man must be to the "manaer born" before he is ever able to bear a banner.

The clergyman invariably preaches a sermon, in which the words nnity, hrotherhood, good-fellowship, charity, duty, &c., occur a great many times. He also drus with the club, a sure guarantee that for some time after the cloth is removed good order will be maintained. There are two old club-mates who have sat together at the dinner for years, and have always introduced the same argument. One maintains that "Wheterey is it like the dinner of contents and the contents are contents."

moved good order will be maintained. There are two old club-mates who have sat together at the dinner for years, and have always introduced the same argument. One maintains that "Whatever is is Right;" the other takes the opposite side, and argues that, if it is so, "then Murder is Right." They always have a little knot of listeners, and are thought rather clever. The clergyman has, on one or two occasions, entered the field; but now he seems to be weaty of it, and if appealed to admits "that much may be said on hoth sides." The dinner we pass over; the health of the retiring stewards is of course drunk, then Trippet and Lee have to say a few words; and if it is late in the evening a few of the brothers are sure to get rather boisterous, and to cry out "Go it Lee!" or Trippet. Some of their wives also occasionally drop in at the close of the day.

Summer has now thrown open her greeu doors; the whole landscape is richly hung with the most beautiful foliage; the fields are ankle deep in flowers, and the earth will never look more lovely than now. Nature everywhere holds high jubilee; bird and hee and brook have each found a voice, and all day long are calling to and answering each other. Beautiful are the mornings and evenings of Juno, when the dew hangs upon the blossoms, and all that sweet aroma, which the hot sun will exhale, floats about the earth. Thomson, in his "Castle of Indolence," has heautifully described the luxury of green fields at this season:—

this season:

Was nongbt around but images of rest—
Sleep-soothing groves, and quiet lawns between,
And flowery beds that slumberons influence cast,
From poppies breathed; and beds of pleasant green,
Where never yet was creeping creature seen.
Meantime unnumber'd glittering streamlets play'd,
And hurled everywhere their waters sheen,
That as they bicker'd through the sunny glade,
Though restloss, still themselves a lulling murmur made.

Join'd to the prattle of the purling rills,
Were hoard the lowing herds along the vale,
And ilocks loud-bleating from the distant hills,
And vacant shepherds piping in the dalo;
And now and then sweet Philomel would wall,
Or stock-doves plain amid the forest deep,
That drowsy rustled to the sighing gale;
And still a coll the grasshopper did keep;
Yet all these mingled sounds inclined to sloep.

A wanderer in the country not only finds pleasure in the heauties of Nature, but feels a delight in witnessing the enjoyment of others, and in none more than seeing the children of the poor—those who have about them the stamp of City-courts and crowded alleys—running for once free and happy along the

green lanes and over the pleasant field-paths. It makes a kind-hearted man sigh to think how those little creatures, ordained naturally to he happy, are shut up in stifling rooms, or left to wander at will through the hot and suffocatshut up in stifling rooms, or left to wander at will through the hot and suffocating streets, in too many instances without any oue to care either for their moral or hodily wants. Such have we sometimes had around us for the distance of a mile or two. They were rummaging every hank, peeping into every hedge, and plucking every flower they came near; they seemed to run over as much ground as a dog: they were never still—hut here, there, and everywhere; ever discovering some object, new and wonderful to them, inch as they had never hefore heheld in their City alleys; a molehill prettily marked, or a little clump of moss, were marvels in their eyes. Then, what a long consultation would there be at the door of some road-side ale-house. They perhaps mustered three or four peuce amongst the whole half-dozen; the lungriest were advocates for all penny-loaves—the extravagant for a pennyworth of cheese. What half-habfahsthil joy played about their little dirty fees, if any conductive of contractions and the stream of the dirty fees. three or four peuce amongst the whole half-dozen; the hungriest were advocates for all penny-loaves—the extravagant for a pennyworth of cheese. What a half-hashful joy played about their little dirty faces, if any good-natured pedestrian stepped in, and, hy contributing a few halfpence, settled the dispute, and for once allowed them to revel in (to them) a rich banquet of hread and cheese. City-hred although they were, there would be a look of mingled gratitude and delight, which proclaimed, in unmistakeable though silent language, that those young hearts were not yet wholly corrupted, but that there lay the soil which might be made either to bear poisonous weeds or goodly fruit. lay the soil which might he made either to bear poisonous weeds or goodly fruit. In a City street their very language might perhaps shock the stranger; but here they are often met with in their hest and gentlest moods. We have somewhere said—though we cannot now lay our hands upon the pa-sage—that God still adorns the earth with trees and flowers as heautiful as ever waved in Eden, as if to prove to man, that however low he may have fallen, the lovely objects of field and wood have not degenerated; hut that the rose is still as swect, and the leaves as beautiful and green, as they were hefore man effended his Maker. All remains as lovely as when first fashioned by the great Creator. Nothing ever pained us more than the great sweeping Enclosure Act. It seemed as if the last link was severed that united man to the wonderful works of God—that he was no longer to "consider the lilies of the field how they grow." There is a rural scene which somehow seems to linger upon our mory more than any other. We can recal it any time, from the trees that overhang the footpath and throw their shadows into the water, to the very hend the river makes as it goes broadening out hetween the meadows, or circles like a helt of silver around the foot of the hills, until it diminishes like a bright cloud in the distance. We have often described it as seen in the early morning, or in the golden noon of day, and when the blue twilight has thrown over it a shadowy veil. Here sheep

We have often described it as seen in the early morning, or in the golden noon of day, and when the blue twilight has thrown over it a shadowy veil. Here sheep heat, and jingle their musical hells as they crop the wild thyme from the hee-haunted hillocks, or hrowse amongst the luxuriant clover in the neighbouring pastures; knee-deep the plump-sided oxon graze, or, chewing the cud, it huried among the flowers of summer. The heavy waggon goes slowly rumbling up the ateep acclivity, on the summit of which stands the old weather-heaten mill, through whose rent sails we can see patches of the bright kky hehind. On every hand figures are crossing the landscape. We see the angler with his wicker basket horne on the end of his folded rod, which rests upon his shoulder. We see figures moving every way.

They come from still green nooks—woods old and boary,
The silent work of many a summer night,
Eve those tall trees attain'd their giant glory,
Or their proud tops did climb that cloudy height.
They come from spot which the grey hawthorus dight,
Where stream-kiss'd willows make a silvery shiver.

Where stream-kiss'd willows make a silvery shiver.

Who can ever fully express the pleasures of a country life? says an old author, with the various delights of fishing, lunting, and fowling, with guns, grey-hounds, spaniels, and several sorts of nets. What refreshment it is to hehold the green shades—the heauty and mejesty of the tall and ancient groves; to he skilled in the planting and training of orchards, flowers, and pot-herbs; to temper and allay these harmless employments with some innocent and merry song; to ascend sometimes to the fresh and healthful hills; to descend into the hosom of the valleys, and the fragrant dewy meadows; to hear the music of birds, the mnrmur of hees, the falling of springs, and the pleasant discourses of the old plonghman. These are the blessings which only a countryman is ordained to, and are in vain wished for by the denizens of smoky cities; they are, ndeed the "sights and sounds that give delight, but hurt not."





-			11		UN.		lı .	MOO	N.				
M	w	ANNIVERSARIES, OC-			UTHS.			Sour	HS.		DURATION OF MOONLIGHT.	HIGH WATER	of Par.
D	D	CURRENCES, FES-	RISES.	After	12 kg uo	SETS.	RISES.	After-	ght	SETS.	Before Sunrise. After Sunset.	AT LONDON BRIDGE.	Day of the Year.
, b	D	TIVALS, &c.		o'cloc	Height above norizon		Afternoon	noon.	Height above horizon	Morning.	Before Sunrise. O'Clock. 1h. 2h. 3h. After Sunset. O'Clock. 9h. 10h. 11h.	Morning. Afternoon	유축
-	-		H. M.	DI.	B. Deg.		н. м.	н. м.	Deg.	H. M.	In. 20. Sh. IV. Sh. III.	н. м. н. м.	-00
1	S	4TH S. aft. TRIN.	3 49		$27 61\frac{3}{4}$	8 17	4 26	9 15	129	1 29	12	11 5 11 37	182
2	M	Visit. of V. M.	3 49	3 3	$39 61\frac{1}{2}$	8 17	5 24	10 1	$ 20\frac{1}{4} $	1 58		No Tide. 0 8	183
3	Tù	Dog Days begin	3 50	3	$50 61\frac{1}{2}$	8 16	6 20	10 48	19	2 34		0 32 0 55	184
4	W	Trans. St. Martin	3 51	4	$0 61\frac{1}{2}$	8 16	7 12	11 36	$18\frac{1}{9}$	3 14		1 15 1 40	185
5	Тн	Arcturus souths 7u. 14m. P.M. [Camb. Term ends.	3 52	4	$11 61\frac{1}{4}$	8 16	7 58	Morning	19	4 0		1 55 2 15	186
6	F	Old Midsum. D.	3 53	4 :	$21 61\frac{1}{4}$	8 15	8 39	0 24	201	4 52		2 35 2 55	187
7	S	Ox. Term ends	3 54	4:	31 61	8 15	9 14	1 12	221	5 49		3 10 3 30	188
8	S	5TH S. aft. TRIN.	3 55	4	40 61	8 14	9 46	1 59	$25\frac{3}{2}$	6 50	19	3 45 4 0	199
9	$ \widetilde{\mathrm{M}} $	Bourbons r. 1815	3 56	4	1961	8 14	10 13	2 47	29	7 56	20	4 20 4 35	190
10	Tu	Epsilon Bootis souths 7h.	3 57	4	58 603	8 13	10 39	3 33	33	9 2		4 55 5 15	191
11	W	Old St. Peter	3 58	5	6 60 3	8 13	11 4	4 20	371	10 12		5 35 5 55	192
12	Тн	Beta Libræ souths 7h, 45m.	3 59	5	$14 60\frac{7}{8}$	8 12	11 29	5 7	42	11 22	23	6 15 6 40	193
13	F	Alpha Serpentis souths Sh. 12m. r.m.	4 0	5	$22 60^{\frac{7}{4}}$	8 11	11 56	5 56	461	Afternoon		7 5 7 30	194
14	S	St. Swithin	4 1	5	$2860\frac{7}{4}$	8 10	Morning	6 46	501	1 50	25	7 57 8 27	195
15	S	6TH S.aft. TRIN.	4 2		35 60	8 9	0 27	7 40	53 💈	3 5	26	9 5 9 37	196
16		The Hegira, or	4 3	5	41 60	8 8	1 4	8 36	56	4 21		10 11 10 47	197
17		flight of Mahomet, A.n.	4 4	1 .	16 593	8 7	1 47		563	5 32	28 7 7 7 1	11 22 11 55	198
18		born, 1822	4 5		$5159\frac{1}{5}$	8 6	2 40	1	564			No Tide, 0 30	199
19		Prs. Aug. Camb.		1	56 59 1	8 5	3 43	11 40		7 31		0 57 1 25	200
20		St. Margaret	4 8		0 597	8 4	4 43	Afternoon	541	8 16		1 52 2 20	201
21	S	Anteres souths 8h. 21m.	4 9		3 59	8 3	6 9	1 38		8 55		2 45 3 10 5	202
22	S	7TH S. aft. TRIN.	14 10	6	6 583	8 2	7 24	2 32	47	9 26		3 35 3 55 5	203
23		[Mary Magdal.	4 11	6	8 58	8 0	8 39	3 23	423			4 19 4 40 5	204
24		Beta Lyra souths 10h. 34m.	4 12		10 58 1	7 58	9 52	4 11	381	10 00			205
25		St. James	4 14	1 -	$1158\frac{1}{4}$	7 56	10 51	4 57	2	10 42		5 47 6 10 9	206
26		l ~	4 15		11 58	7 54	Afternoon	F 40	30	11 6		6 30 6 55 2	207
27	-	Revolution in Pa-		6	11 573	7 53	1 12	6 26	261	11 32		7 15 7 40 2	208
28	1	ris, 1830, lasted three		6	10 57	7 51	2 16	7 12	$23\frac{1}{2}$			8 5 8 35 2	209
29	1	8TH S. aft. TRIN.	4 21	6	$957\frac{1}{4}$	7 50	3 15	7 57		0 1	10		210
30		Alpha Aquilæ souths 11h 9m.			7 57	7 49	4 13		191	0 34		0 18 10 55 2	211
31		Alpha Lyres souths 9h, 54m.			4 563	7 47	5 6	9 31	4			1 25 At Mid-	212
1		P.M.	9, 2		1,004		II. O	., 31	2		1	Algut.	

JULY.

JULY.

THE SUN is in the sign Cancer till the 23rd, on which day, at 0h. 59m. A.M., he enters that of Leo (the Lion). On the 1st he is 96,590,000 miles from the Earth, being at his greatest distance on this day, at 4h. A.M., during the year. On the 1st he rises at 3°½ N. of N.E. by N.; on the 18th, at the N.E. by N.; and on the 31st, at 4°½ S. of N.E. by N. He sets, on the same days, at 3°½ N. of N.W. by N.; at the N.W. by N.; and on the last day at 4° S. of N.W. by N. points of the horizon. His time of southing, in common clock time, and his height in degrees at the same time, are given for every day on the opposite page.

The Moon is in the constellation Libra ou the 1st; in Ophiuchus, on the 2nd, 3rd, and 4th till noon; moving on the boundaries of Aquila and Sagittarius, till the 6th; in Capricornus, on the 7th; in Aquarius, from the 8th to the 10th; in Pisces and Cetus alternately, till the 15th; in Taurns, on the 16th and 17th; in Geminl, on the 18th and 19th; in Cancer, on the 20th; in Leo, from the 21st to the 23rd; in Virgo, till the 26th; in Libra, on the 27th and 28th; and in Ophiuchus, till the end of the month.

of the month.

of the month.

She rises before the Sun sets, till the 5th; during the night, till the 19th; and after the Sun rises, till the 20th. She sets before the Sun rises, till the 4th; during the day, till the 19th; and after the Sun sets, from the 20th. For the actual times, see the opposite page.

She is on the Equator on the 12th and on the 24th. Her time of southing, in common clock time, and her height in degrees at the same time, are given for

common clock time, and her height in degrees at the same time, are given for every day on the opposite page.

She is near Satura on the 12th; Uranus, on the 13th; Mars, on the 14th; Venus, on the 16th; Mercury, on the 18th; and Jupiter, on the 21st. She is full on the 5th, and new on the 19th; but without an Eclipse at both times.

Mercury is in the constellation of Gemini throughout the month.

He is a morning star from the 5th; and rises on the 5th, at 5m.; on the 8th, at 25m.; on the 14th, at 1h. 1m.; on the 20th, at 1h. 25m.; from the 25th to the 29th, at 1h. 34m.; on the 30th, at 1h. 33m., before the sun rises. The period of time from the 14th to the end of the month is favourable for observing this planet, before sunrise. He rises at 7½ N. of E.N.E., on the 1st; at N.E. by N. on the 22nd; and 1° N. of N.E. by N. on the last day. He is moving eastward from the 12th to the 31st. He is near the Moon on the 18th; and at his greatest west elongation on the 21st.

Venus Is in the constellation Taurus throughout the month.

She is a morning star; and rises on the 1st, at 1h. 33m. A.M.; and on the last

She is a morning star; and rises on the 1st, at 1h. 33m. a.m.; and on the last day, at 0h. 59m. a.m., at 2°\frac{1}{2} N. of E.N.E. on the 1st; and at 1°\frac{1}{2} S. of N.E. by N. points of the horizon on the 31st. She is moving eastward among the stars throughout the month; is near Aldebaran on the 15th; and the Moon on the 16th. On the 22nd she is at her greatest W. elongation. Her places in the heavens, relative to the principal fixed stars near her, are shown in the annexed diagram.

PATH OF VENUS, WITH RESPECT TO THE FIXED STARS, DURING THE MONTH OF JULY, 1849.



Scale, 12 degrees to one inch.

MARS is in the constellation Aries till the 27th; and in Taurus, from the 28th

He rises on the 1st at 26 minutes after midnight; on the 1ith, and on the 31st, at 11h. 13m. p.m. He is visible throughout the night, after these times. He rises on the 1st at 6°\frac{1}{2}} N. of E. by N.; on the 14th, at E.N.E.; and on the 31st, at 5°\frac{1}{2}} N. of E.N.E. His times of sonthing are given below; and he sets at about 2\frac{1}{2}h. p.m. He is moving castward among the stars; and is near the Moon on the 14th.

A TIMES OF THE PLANETS SOUTHING, OR

JUPITER is in the constellation Leo throughout the month.

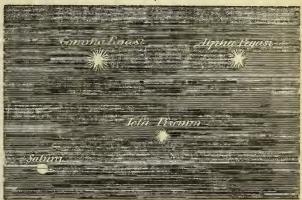
He is an evening star; and sets on the 1st, at 10h. 25m. p.m., at $1^{\frac{1}{2}}$ N. of W.N. W.; on the 19th, at 9h. 19m. p.m., at W.N.W.; and on the last day, at 8h. 37m. p.m., at $1^{\frac{1}{2}}$ S. of W.N.W. He is moving eastward among the stars; and is near the Moon on the 21st.

SATURN is in the constellation Cetus throughout the month.

SATURN is in the constellation Cetus throughout the month.

He rises on the 1st, at 11h. 46m. P.M.; on the 15th, at 10h 42m. P.M.; and on
the 31st, at 9h. 49m. P.M. After these times he is visible throughout the night.
He rises on every day, a little to the N. of the east part of the horizon, is
nearly stationary among the stars during the month; and is near the Moon on the
12th. His place in the heavens, with respect to the principal fixed stars, is shown
in the annexed diagram; during the remainder of the year, his change of place
is small, and he therefore occupies nearly the same place among the fixed stars
to the and of the year. to the end of the year.

RELATIVE POSITION OF SATURN TO NEIGHBOURING STARS, DURING THE MONTH OF JULY, 1849.



Scale, 12 degrees to one inch.

URANUS rises about 4° N. of E. by N. on the ist, at 0h. 7m. A.M.; and on the last day at 10h. 10m. P.M. He is nearly stationary among the stars; and is near the Moon on the 13th.

ON PLANETARY PHENOMENA.

(Continued from June.)

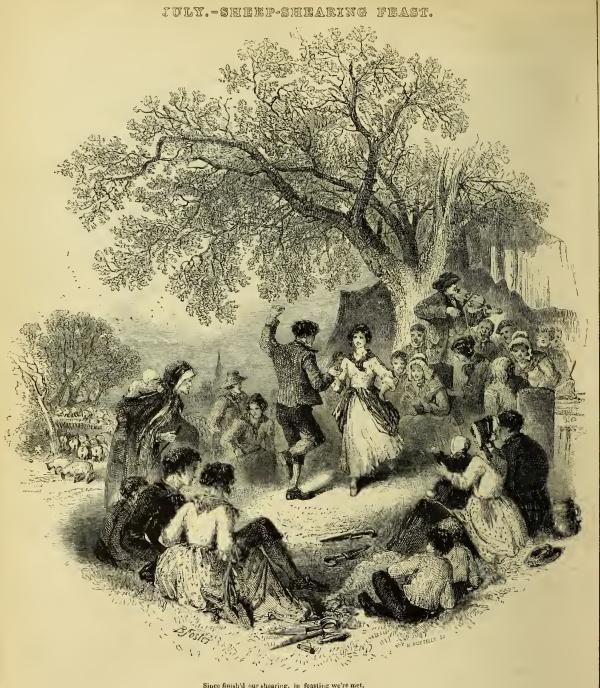
(Continued from June.)

change of height may escape notice for a few evenings; but if continued for a month, the observer cannot fail to be convinced of the fact. The causes which operate to make the stars and the planets rise earlier every evening, operate in a similar way to make those situated in the west set earlier every succeeding evening. Those objects, therefore, which we have been accustomed to see occupy the western portion of the sky after sunset, are no longer to be found there, but their places are occupied by other objects; and thus, by the Earth moving round the Sun, all the stars successively become visible to us. Had the Earth moved about a fixed axis passing through its centre, and not in an orbit round the Sun, the aspect of the heavens, at the same time of night, would have been always the same.

orbit round the Sun, the aspect of the heavens, at the same time of night, would have been always the same.

In the Almanack for 1847 are given the times at which the principal stars pass the meridian before midnight in most of the months. The times that the same stars in the same months in this year pass the meridian, are one minute earlier than the times given in the Almanack for 1847; and, therefore, these times, by the application subtractively of one minute, apply during this year. The stars thus preserving their places from year to year without change, present an admirable means of showing the absolute changes in the places of the Moon and planets from period to period. These changes are perpetually progressing, and all of them are noticed from month to month, as far as is necessary to enable every reader to find any planet in the heavens, and to follow its course among the stars from year to year. Previously to the publication of this Almanack, few persons indeed had seen the Planet Mercury with the unassisted eye, which owing to his proximity to the Snn, is the most difficult to see, of all the old planets. At times, however, be may be readily seen, either in the evening or morning twillight, according as he is at his greatest eastern or western elongation. These times are carefully noted, and (Continued in August.)

s of	TIMES	PASSING	G THE M	ERIDIAN	inu,		JUP	'ITER'S S.	ATELLIT	es.		occi	U LTATIO	NS OF ST	ARS BY T	HE MOOI	٧.
Days of the Month	Mercury.	Venus.	Mars. Morning.	Jupiter.	Sat	- 11					Na	mes of the S	Stars.	Times and re-	of disappe appearance Star.	earance or t	the dark oright limb of the Moon.
1 6 11 16 21 26 31	H. M. 11 54 11 24 11 0 10 45 10 40 10 45 10 59	н. м. 9 0 8 56 8 53 8 52 8 51 8 52 8 53	H. M. 7 26 7 20 7 14 7 8 7 1 6 55 6 49	H. M. 2 59 2 43 2 27 2 11 1 56 1 40 1 24	H. 5 5 5 4 4 4 4 3	м. 55 36 17 58 38 18 58	re not visi	ble, Jupit the S		too near t		scium ar in Ophi	uchus	13 13 5 29 1 At the pear	H. M. O 9 A.M O 51 A.M I 30 P.M etimeofrance the	e-ap-	Bright Dark Dark
TIMES	of CHA	NGES O	F THE	MOON,	the			RIGI	IT ASCE	NSIONS .	AND DE	CLINATI	ONS OF				
And w	hen she is a	ther great	est distanc	e (Apo-	s of touth	MER	CURY.	VE	ius.	MA	RS.	JUPI	TER.	SAT	JRN.	URA	NUS.
	rather leas in each Lnr		Perigee), f	rom the	Daye	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.
NEW A	QUARTER IOON QUARTER E	13	7 9 14 0 3 8 2		1 6 11 16 21 26	6h, 32m 6 21 6 17 6 22 6 37 7 1	18° 38′ 18° 34′ 19° 2 19° 53 20° 51 21° 36′	3h. 37m 3 53 4 10 4 28 4 48 5 8	15° 36′ 16 24 17 15 18 6 18 54 19 36	2h. 4m 2 17 2 31 2 44 2 58 3 11	10° 56′ 12 9 13 18 14 24 15 26 16 24	9h. 37m 9 41 9 45 9 48 9 52 9 56	15° 9′ 14 51 14 32 14 12 13 51 13 30	0h. 32m 0 33 0 33 0 33 0 33 0 33	0° 54′ 0 56 0 57 0 57 0 56 0 53	1h.37m 1 37 1 38 1 38 1 38 1 38	9° 29' 9 31 9 33 9 35 9 36 9 36



Since finish'd our shearing, in feasting we're met, And our master before us this plenty has set; While gaily and gladsome we builday keep, Let us give the praise due to the ficece and the sheep —Old Song.

Sheep-Shearing Feast is one amongst the oldest of our English holidays; and appears to have ranked with the earliest celebrations of the olden times. It is frequently alluded to in the Bible, where we meet with the names of those who celebrated it; and we even find enumerated the many good things which were consumed at the feast. It is pleasant to dwell upon such ancient customs, to recal scenes which were in existence thousands of years ago, long before the shepherds assembled in the fields of Bethlehem, or the "star had arisen in the east" that illuminated a dark and benighted world. It was so natural, when mankind had gathered in the wool which was to clothe them, and the corn which was their principal food, to return thanks to the Giver of all good, and to be joyful and merry on such occasions. It is a pleasure to know, that in summer time there was the same bleating of sheep and lambs beside the brooks in the pleasant vallies of Palestine, as there is now in our own green English pastures; and that, ages ago, the shepherds washed their flocks in the hallowed waters of Jordan.

There is nothing more lively than Sheep-Shearing, where all the idlers in the villago are assembled; where the crowded pens are filled with bleating sheep; while the shearers are bending as earnestly over their work as if it were a matter of life and death, though the lookers-on only consider it as a pleasant

amusement. There is, also, something pleasing in the sound, as they overy now and then pause to whet or sharpen their shears—in the very attitude of the clipped sheep as they turn away, as if they scarcely knew themselves, or their companious, for they all seem lost together; so strange do they appear in their ridgy jackets; for wherever the edge of the shears has clipped there is a mark which goes round and round, as if the sheep were bandsged in fine wool. Then there is something pleasing in the scenery amid which this labour takes place, in the large old barn in the background with its opening door, or the farm-yard surrounded with stacks, sheds, and out-houses, and carts, painted blue or red, on the shafts of which the fowls are perched. But the most cheering sight of all to the "clippers," for such are the sheep-shearers called, is the preparation under the oak before the farm-house door, or within the barn itself, for the feast; for they not only look forward to a merry time, but there is the consciousness that their labour is brought to a close; and when the last sheep is sheared, then comes the loud huzzal for no end of goot things are inviting them,

inviting them,

The great copper is filled with furmity, made of boiled wheat, which, when cold, cuts like jelly; currants, raisins, spices of every kind; sugar shot in pounds, which, when boiled enough, is emptied out into basins and pans, and

cooled with new milk. Round this delicions mess assemble the young-three or

cooled with new milk. Round this delicions mess assemble the young—three or four, with huge wooden spoons, eating out of one pancheon, or large earthenware vessel, about two feet wide. Sometimes, they quarrel, like pigs around a trough; one has thrown a spoonful of furmity into the others face; others have set off, and gone into the orchard to swing. The great kitchen is a very Babel of sounds.

In my "Pictures of Country Life," I have drawn the following picture of a Sheep-Shearing Feast, which is sometimes held in the barn: the immense door is turned into a table, and almost bends beneath its load of provisions. We talk of roast beef; taste what is set before them! Smell of that chine: what a nosegay! its stuffed with all kinds of savoury herbs; it tastes like duck, goose, pork, veal; as if all good things were rolled into it, and made one. It would make a sick man well only to smell of it. What slices! What appetites! What horns of brown ale they empty! A waiter in a London eating-house would ran away horror-stricken, and proclaim a coming famine throughout the land. They cat their peas by spoonfuls: a new potato vanishes at every mouthful; dishes are full and emptied ere you can turn your head. That was a whole ham ten minutes ago, now you behold only the bone. Who ever before saw such enormous plum-puddings? Surely they have eaten enough. Why, that broad-shouldered sun-burnt fellow has clapped a solid pound upon his plate—it is burning hot: look how he holds that large lump, and blows it between his teeth; the tears fairly start into his eyes. Where are those legs of mutton, the chines, and sirloins, and airch-bones of beef? Gone, for ever gone! And now come the custards, and cheesecakes, and tarts. The men will assuredly bnrst. See, they loosen their neckerchiefs and their restreets. The men will assuredly burst. See, they loosen their neckerchies and talks. The men will assuredly burst. See, they loosen their neckerchies and talks. was if they were going to begin again in downright earnest. Every man seems as if he had bronght the appetite of three, as if he were resolved to do his utmost; for "eat, drink, and spare not," is the order of the day; there is

do his utmost; for "eat, afths, and spare not," is the order of the day, there is no one by to begradge them.

The following beautiful song, which we found in a collection published nearly a century and a half ago, has, no doubt, often been carolled by many a voice, long since silent, at the old English Sheep-Shearing Feasts. We regret that we are unable to discover the Author's name, for every line is stamped with the im-

press of true poetry:-

Tarry wool, tarry wool,
Tarry wool is ill to spin;
Card it well, card it well,
Card it woll ere ye begin.
When 'tis carded, rolled, and spun,
Then the work is almost done;
But when woven, drest, and clean,
It may be clothing for a queen.

Sinc, my bonny barmless sheep,
That feed upon the mountains steep,
Bleating sweetly as ye go
Through the winter's frost and snow.
Hart and hind, and fallow doer,
Are not half so useful here.
From kings, to him the plough does pull,
Are all obliged to tarry wool.

Up, ye shepherds! dance and skip, O'or the hills and vallies trip; Of tarry wool sing ye the praise, Sing the flocks that do it raise:

Harmless croatnres witbout blame, That clotho the back, and feed the home; Keep ns warm, and hearly full; Let us love tho tarry wool.

How bappy is a shepherd's life! Far from courts, and free from strife. While the west do bleat and "bao," And the lambkins answer "mae," No such music to his ear. Of thief and fox has he no fear: Shepherd will watch—dog rend and pull, And well defend the tarry wool.

He lives content and envies none, No, not a monarch on his throne; Though be the royal sceptrs sways, Ho hath not sweeter holidays. Who'd be a king, can any tell, When a shopherd sings so well? Sings so well, and pays in full, With honest beart and tarry wool.

Sing the flocks that do it raise:

With honest beart and tarry wool.

"It is a poor heart that never rejoices;" and when we think of the many bleak bitter nights at the close of February and the beginning of March which the shepherds have passed in the openfields, and on the windy hills, in the "lambing season." It gives one pleasure to see them still so happy. Many a lamb would have been lost, but for the care they took of them; for there they waited night after night, amid sleet and storm, in their little temporary huts, ready to rush out in a moment, and pick up and shelter the young lambs, which would otherwise, perchance, have perished in the cold. Proud were they, when finer days came, and they looked on and saw their new-born flocks racing in the meadows. Now let us peep into that pretty pariour. There sit the farmer's daughters at tea. What piles of cakes, honey, butter, eggs, ham, cold fowl! What smiling faces! and some of them are really beautiful pictures of rosy health. Now they are singing in the kitchen; now the fiddle is heard in the barn; there is girgling and langither in the orchard; whisperings somewhere in the garder; children playing at hide-and-seek in the stack-yard. See where those darkeyed seducers, the glysles, have congregated outside the farm-yard; somehow or another they have come in for their share of the feast: by and by, they will below; and as the ale-horn circulates, it will, long before midnight, be "Hail fellow! well met!" feilow! well met!'

will follow; and as the ale-norn circulates, it will, long before minninght, be "Half fellow! well met?"

Then come the morris dancers, "Robin Hood," and "Maid Marian," with such poetry as is not to be found in the old ballads. Well, there is pleuty for all; the ale for Sheep-Shearing Feast was brewed many a long month ago; and there are still half a dozen barrels untapped in the cellar, all of which were brewod from an extra allowance of malt, for the great occasion of "Sheep-Shearing."

But where is the old farmer? He bade his men fall to, and welcome; and we have not seen him since. No, he is in the large, old-fashioned summer-house at the bottom of his garden, with the butcher, and the miller, and the maltster, and the boctor, and the landlord from the "Black Bull;" and they have drawn the corks of a few bottles of choice port, and are enjoying themselves in their own way. The young lawer has brought his fiddle, for he is a gentieman fiddler; and the young ladies in the parlour will come soon, and dance on the lawn, for even there the line of distinction is drawn. The wealthy farmer's danghter may condescend just to dance a turn or two in the barn; and when they have gone, the old one-cyed hired fiddler will strike up "Bob and Joan," just to show his contempt for such proud, stuck-up "thingumterrys," as he will call them; "with their waltzes, and quadrilles, and such like outlandish fal-the-rals, as their grandmothers would have been ashamed to have been seen in."

All who have wandered into the country, about the beginning of summer, must have heard the unusual bleating amongst sheep in the neighbourhood of rivers and water-courses; and if they have never beheld such a scene before, must, when they have reached the spot, have looked both with interest and pleasure at a sheep-washing. There stand three powerful sun-burnt fellows, up to the middle in water. A sheep is forced in by a man on the bank; it is seized by the first washer, who, laying fast hold of the fleece, souses the poor creature about, as if he would shake it to pieces; he then looses his hold, and the bleating animal, as he beç ins swimming towards the shore, is seized by the second washer, in whose hands he fares no better than he did whilst an unwilling prisoner to the first. He bleats more pitifully; and just as he is within a few feet of the shore, souse he goes over and over for the third time, and then he is at liberty. He reaches the bank, and there stands bleating, while the water flows from his heavy fleece. Others who have undergone the same fate bleat in reply; while the unwashed ones are not a blt behind-hand in their complainings, for a hundred sheep "baa" like one.

Then, what a roar of laughter comes ringing upon the air, at the sturdy shep-All who have wandered into the country, about the beginning of summer,

herd boy, who, while thrusting and forcing along some obstinate sheep to the

herd boy, who, while thrusting and forcing along some obstinate sheep to the edge of the water, Is carried in, headlong, with his woolly companion; and, by an unexpected plunge, both are sent head over ear together, and land alike with a kindred and sheeplsh look, for Jack is passed from hand to hand, amid loud "guffawa," which are heard half a mile off.

Sometimes the village girls will come down to the sheep-washing, and then there files round many a rough random shot of country wit: the girls trace strange likenesses amongst the sheep to some cavied rival; and, in allusion to the number of lambs, "more is meant than meets the ear." The frailties of some fair Phyllis are shadowed forth; while Damon, although midway in water, burns up to his very ears. You find that Dianas are not the only nymphs who haunt the neighbourhood of these pastoral Arcadias.

burns up to his very ears. You find that Dianas are not the only nymphs who haunt the neighbourhood of these psstoral Arcadias.

We have before spoken of Sheep-Shearing as being an ancient festival, and in the Book of Samuel, we read of Nabul, a man in Maon, whose possessions were in Carmel, who had three thousand sheep and a thousand goots; "and he was shearing his sheep in Carmel. And David heard in the Wilderness that Nabul did shear his sheep. And when David's young men came, they said to Nabul, We come at a good time." We read again, in the same book, of Absalom having sheep shearers, and inviting all the King's sons to the feast; and David was afraid to let all his sons go, lest they should cause Absalom too great an expense; and further on we find that they made merry with wine. For in our own English poet Herrick, we have it recorded that on such occasions there was always plenty—that the table was strown with no nigrard hand. plenty-that the table was strown with no niggard hand.

They should see first and chief Foundation of the feast—fat beef; With upper stories mutton, veal, And bacon, which makes full the weal: With several dishes standing by, As here a custard, there a pie, And here all-tempting furmity.

Summer now reigns in the full womanhood of her beauty. The roses of her lips now pout in the rounded sweetness of their bloom; and the sun has stained her cheeks with the richest dyes of heaveu. Her hair is wreathed with the last blossoms of her choicest flowers; and when these are faded, she will begin to look round for her place of rest, for the beautiful summer has attained her full beauty, and is already doomed to die. Slowly, slowly, you see the flowers and leaves falling, to make her death-bed; and soou the sweet songsters will take their departure, for they cannot stay to look, while one so beautiful is about to gather np her gaudy garments in "dying dignity," and stretch herself upon a grave of faded flowers, to die. And yet, once again, Time will meet Summer

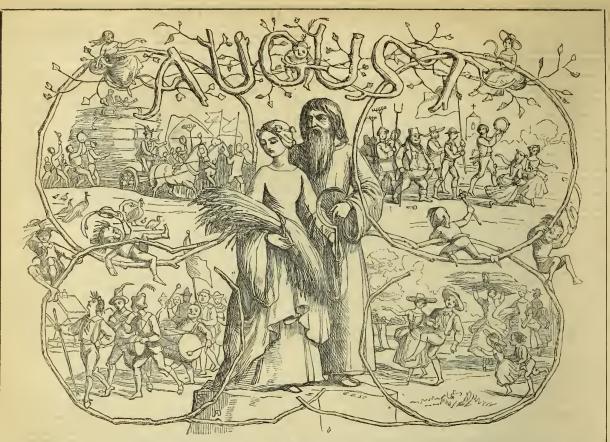
At this same place. She'll look as lovely as of old. For there will spring another race of flowers from ont the upturu'd mould, That have been buried long ago.

This has ever been onr favourite month for angling. Not that we ever stood high as disciples of the "gentle" craft; but rather loved to let our rods lie idly amongst the reeds and flowers; or to watch the float riding lazily upon the ripamongst the recess and nowers; or to watch the hold rinding larily upon the ripples, while we whispered to the silvery shiver which the willows were ever making; or, with half closed eyes, lay drowsed beneath the perfume that came floating from some neighbouring bean-field. What a music there was in the lopping of the little ripples, as they came, one after another, to warm themselves on the sunny shore, bowing the reeds that grew a little way out as they passed. Or to watch (as I have, in my poem entitled "Summer Morning," described a scene), when it rained,

Tamed,
The loaves "drop," "drop," and dot the silver stream—
So quick each circle wore the first away.
To see the tufted bullrush stand and dream,
And to the ripple nod its head alway;
The water-flags with one another play.
Bowing to every breeze that blows between,
While purple drsgon-flies their wings display;
The rostless swallow's arrowy flight is seen,
Dimpling the sunny wave then lost amid the green.

Such sights were more pleasing to us than the capture of a thousand fish.





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20		Beta Lyræ souths Sh. 50m.	4 54	3	10	51	7 11	7 28	2 ($40\frac{3}{4}$	8 20				3 20 3 40	232
21	Ti	Delta Aquilæ south s9h. 17m.	4 55	2	55	501	7 9	8 39	1	36	8 45					233
22	W	Gamma Aquilæ souths 9h.	4 57	2	41	501	7 7	9 49	3 35		9 9				4 40 5 0	234
23		34m. P.M. Alpha Aquilæ souths 9h,	4 59	2	25	50^4	7 5	10 56		28^{4}	9 34				// -	235
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		20			-											

AUGUST.

The Sun is in the sign Leo till the 23rd, on which day, at 10h. 52m. A.M., he enters that of Virgo (the Virgiu). On the 1st he is 96,386,000 miles from the Earth. On the 1st he rises 6°_2 N. of E. N.E.; on the 15th, at the E.N.E.; and on the last day, at 2°_2 N. of E. by N. He sets at 6°_2 N. of W.N.W., on the 1st; at the W.N.W., on the 15th; and at 2°_2 N. of W.N.W., on the 31st. His time of southing, in common clock time, and his height in degrees at the same time, are given for every day on the supported the same time, are given for every day on the opposite page

by N., on the 31st. His time of southing, in common clock time, and his height in degrees at the same time, are given for every day on the opposite page.

He is totally eclipsed on August 18th; this eclipse is visible in Australia and the Indian Ocean, but uot here.

The Moor is moving on the boundaries of Aquila and Sagittarius on the 1st and 2nd; in Capricornus, on the 3rd; in Aquarius, on the 4th, 5th, and 6th; in Pisces and Catus, alternately, fill the 11th; in Taurus, on the 1sth and 17th; in Leo, on the 18th and 19th; in Virgo, on the 20th, 21st, and 22nd; in Libra, on the 23rd and 24th; in Ophiuchus, on the 25th, 26th. and 27th; near Aquila and Sagittarius, on the 28th and 29th; in Capricornus, on the 30th; and in Aquarius, on the 28th and 29th; in Capricornus, on the 30th; and in Aquarius, on the 31st.

She rises before the Sun sets from the 1st to the 3rd; after the Sun sets, and before he rises, or during the day, from the 4th to the 18th; and after he rises, or during the day, from the 4th to the 17th; and after the Sun sets, from the 18th. For the actual times, see the opposite page.

She is ou the Equator on the 8th and on the 21st. Her time of southing, in common clock time, and her height in degrees at the same time, are given for every day on the opposite page.

She is near Saturn on the 8th; Uranus, on the 9th; Mars, on the 12th; Venus, on the 13th; and Mercury and Jupiter, on the 18th.

She is fall on the 4th, and new on the 18th; and an Eclipse of the Sun takes place on the latter day, but it is invisible in this country.

MERCORN is in the constellation Gemini on the 1st, in that of Cancer, from the 2nd to the 11th; and in that of Leo, from the 12th.

He is a morning star till the 16th, and an evening star towards the end of the month. On the 1st he rises at th. 27m.; on the 5th, at 1m. Vy, by N; on the 18th, at 1°N. of N.E. by N.; on the 5th, at 1m. N.W. by N; on the 18th, at W.N.W.; and on the 28th, at the W. by N. He is moving eastward among the stars during the month; ho is near the Moon

18th, and Jupiter on the 20th; and is in superior conjunction with the Sun on the 18th.

Mars is in the constellation Taurus throughout the month.

He is visible throughout the greater part of the night; and rises, on the 1st, at 11h. 10m. P.M.; and on the last day, at 10h. 2m. P.M.; on the 1st, at 5³ N. of E.N.E.; and on the 27th, at N.E. by N. His times of southing are given below; and he sets at about 2½h. P.M. He is moving eastward among the stars, and is near the Moon on the 12th.

This Planet is now becoming conspicuous; his places among the fixed stars, during this and the following month, are shewn in the annexed diagram.

PATH OF MARS. DURING THE MONTHS OF AUGUST AND SEPTEMBER, 1849.



Scale, 12 degrees to one inch

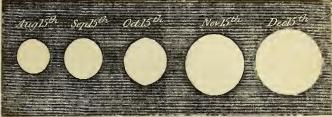
27 11

APOGEE

P.M. 21 10 23 11 A.M. 26 10 57 8

From this time to the end of the year his telescopic appearance undergoes considerable changes, and which are shewn in the following diagram.

BELATIVE APPEARANCES OF MARS, IN THE MONTHS OF AUGUST TO DECEMBER, 1849.



Scale, 20 seconds of arc to one inch.

VENUS is in the constellation Taurus till the 2nd; in that of Orion, from the 3rd to the 8th; in that of Gemini, from the 9th to the 29th; and in Cancer,

on the 30th and 31st.

She is a morning star throughout the month; and rises, on the 1st, at 0h. 59m.

She is a morning star throughout the month; and rises, on the 1st, at 0h. 59m. A.M.; on the 15th, at 1h. 2m. A.M.; and on the last day, at 1h. 22m. A.M., near the N.E. by N. point of the horizon all the month. She is moving eastward among the stars throughout the month, and is near the Moon on the 14th. Jupiter is in the constellation Leo throughout the month. He is in an evening star; and sets at 8h. 33m. p.m., on the 1st, at 1°½ S. of W.N.W.; and at 6h. 46m. p.m., on the last day, at 6° N. of W. by N. He is moving eastward among the stars; and is near the Moon on the 18th, and Mercury on the 20th. He is in conjunction with the Sun on the 26th. Saturn is in the constellation Cetus throughout the month.

He is visible during the greater part of the night; and rises, on the 1st, at 9b. 45m. p.m.; on the 15th, at 8h. 50m. p.m.; and on the last day, at 7h. 47m. P.M., near the east part of the horizon. He is nearly stationary among the stars during the month, and is near the Moon on the 8th.

URANUS rises about 4° N. of E. by N., on the 1st, at 10h. 7m. p.M.; and on the last day, at 8h. 8m. p.M. He souths, on the 15th, at 4h. 4m. A.M., at an altitude of 48°. He is nearly stationary among the stars, and is near the Moon on the 9th.

of 48°. the 9th.

ON PLANETARY PHENOMENA.

(Continued from July.)

the places in the heavens occupied by the planet are also carefully indicated; thus enabling any person to find this planet without telescopic assistance.

The phenomena exhibited by the Planet Venus are always interesting; her recession from the Sun to a limited distance, remaining stationary there for a few cession from the Sun to a limited distance, remaining stationary there for a few days, then moving towards the Sun, passing him, and receding to a limited distance on the opposite side remaining stationary for a few days, and then returning, and so on, oscillating, as it were, backwards and forwards, the Sun being the apparent centre of her vibrations, like Mercurry in this respect, (see pages 27 and 37 of the Almanack for 1846). By comparing the motions of the Moon with those of the above planets, it will be seen to be widely different from them. The Moon never returns backward, or becomes stationary, but performs the entire circuit of the heavens, and overtakes the Sun, passes him, and again proceeds on her course as before

the entire circuit of the heavens, and overtakes the Sun, passes him, and again proceeds on her course as before.

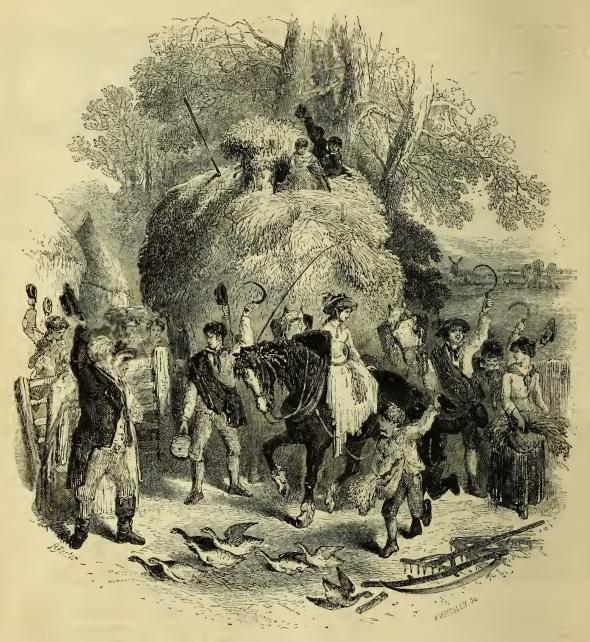
The orbit of the planet Mars encloses that of the Earth; and he is in opposition once in two years only. During that year in which he is not in opposition, he is dull and small (see page 9 of the Almanack for 1846); but near the period of his opposition he becomes large, red, and splendid. When in opposition, he rises as the Sun sets; and the Earth and planet are in the same straight line, which line, if continued, would pass through the Sun. Now, as the orbit of Mars encloses that of the Earth, it will be seen that at this time Mars is nearer to the Earth than at any other time—nearer than when in conjunction by the entire diameter of the Earth's orbit, or 190 millions of miles. This remark applies to all the superior planets, or those whose orbits enclose that of the Earth. This will be evident by reference to the diagram in February, where it will be seen that when the Earth is at E 2, it is nearer to Jupiter by the whole diameter of her orbit, than when she occupies the position E; this difference of distance is so large in proportion to the whole distance of Mars from the Earth, as to cause a very great difference in his appearance at different times; but this difference of appearance is difference in his appearance at different times; but this difference of appearance is

(Continued on page 52).

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And	when she is	at her gre	atest distan	ce (Apo-	s of th	MERC	CURY.	VEN	ius.	MA	RS.	JUP	TER.	SAT	URN.	URA	NUS.
	or at her lea h in each Lu		(Perigee),	from the	MA	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.
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54 | 7 4 | 20 50 | 4 19 | 20 22 | 10 18 7 | 7 28 | 20 27 | 4 31 | 20 56 | 10 22

AUGUST.-HARVEST HOME.



About the cart hear bow the rout Of rural younglings raise the shout; Pressing before, some coming after, Those with a shout, and these with laughter; Some bless the cart, some kiss the sheaves, Some prank them up with eaken leaves.—HERRICK.

NEITHER the harvest-snpper nor the sheep-shearing-feast present such poetical features as the rural employments which terminate in their celebration, for hoth in the end are hut reduced to the common and necessary acts of eating and drinking. In harvest-time we see an old and heautiful picture; it was the same thousands of years ago; it is familiar to us in the pages of Holy Writ. Ahraham and the early patriarchs have looked upon such scenes, for it has ever heen a time of rejocing. What rich pictures, mellowed with the sunsets of ages, rise before the eye as we look upon the sun-hrowned reapers! scenes not there presented, hut such as have sprung from the events caused by good or had harvests. We see, in Egypt, Joseph and his brethren; Abraham and Isaac overlooking the harvest-field from their tents; lands sold for measures of corn; David's household husy in the fields; Ruth "weeping amid the alien corn;" Our Saviour gathering the ears of wheat on the Sahhath; and a hundred other incidents which are connected with the sacred history of our religion.

But beautiful as may have been the harvest-fields of Palestine or Egypt, they could never have excelled in picturesque effect those which we have seen in our own England, kemmed in every way by rich and park-like scenery. Here vast

breezy uplands, that come sweeping down into broad pasturc-lands, all waving breezy uplands, that come sweeping down into broad pasture-lands, all waving golden witheary corn. Reapers and gleaners—men, women, and children—clothed in every variety of homely costume, standing, stooping, or sitting down beside the piled-up sheaves, or half-buried in some little hollow behind the standing corn. Little village urchins, whose bare hard legs are pierced all over with the sharp stuhhle, and who thrust straw and all into their small gleaning-bags, so that they may appear full against the given time of either luncheon or dinner, the only difference in the meal consisting in the name given to it, for the homely viands are the same. Nor are the actions of the reapers less interesting; there is a peculiar art in making those straw bands in which the sheaves are bound, in twisting the heads of corn together so as not to shake ont the grain, in placing them nicely upon the stuhble, and, finally, in tying np the sheaf itself, and securing the stubble ends of the band, and giving to them all, when hound, a free and plumy appearance. We see such scenes as hriog hefore the eye Keats's splendid description of autumn, where he asys:—

Sometimes whoever seeks abroad may find Thee sitting careless on a granary floor,

Thy hair soft-lifted by the winnowing wind; Or on a half-resped furrow sound asleep, Drowsed with the fune of poppies; while thy hook Sparos the next swathe, and all its twined flowers; And sometimes, like a glean r. thou dost keep Stoady thy laden head across a hrook.

But the bringing home of the last load forms the subject of our present Sketch, such as we have witnessed, and has received all but life and motion from the hands of the artist. The farmer's daughter, an interesting girl, was scleeted for the Harvest Queen, and drossed out very becomingly for the occasion, her little round straw-hat wreathed with ears of corn and convolvuluses; she was her little round straw-hat wreathed with ears of corn and convolvuluses; she was seated sideways on the leader, a fine chesnut-coloured horse, whose head was decorated with bunches of corn-flowers and blue ribbons; the hat of the driver was also adorned with bows of the same hue, "true blue" being your rustic's favourite colour; every horse in the team was distinguished by similar ornaments. The last "stouk" is, however, still standing in the field, the topmost sheaf of which is buried beneath bunches of rich-coloured ribands and flowers; long streams of blue and yellow and crimson have been floating out from the top of that "shock" ever since morning, and now the whole row along the furrow has disappeared, excepting that. At last the waggon approaches it, the gleaners and reapers rend the air with their lond huzzas, as the "harvest-sheaf," the crown of the field, is held high on the long pitching-fork by the labourer; it is then received by the man on the top of the load, and then reared on end, the most conspicuous object, through its gaudy colours, in the whole landscape. A few lines from our "Book of Autumn" will close the scene:—"Onward comes the vaggon—the last load reaches the village—at the end of which the worthy farmer lives, and every cottager rushes out with a hearty welcome to hail the few lines from our "Book of Autumn" will close the scene: "Onward comes the wiggon—the last load reaches the village—at the end of which the worthy farmer lives, and every cottager rushes out with a hearty welcome to hail the procession as it passes. The little tailor uncrosses bis legs, throws down his goose and sleove-board, and with his hose ungartered and hanging about his lives, his spectacles thrust high up his forehead, raises his child-like voice, and brandishes his shears above his head, cansing them to snap together at every shout, as he joins in the loud jubilee. The smoke-grimed blacksmith leans his naked and brawny arms across the half-door of his smithy, while his man John stands in the middle of the road swinging his heavy hammer in the air, and grimning from ear to ear with delight. The wheelwright leaves the tire half-driven in the smoking wheel; and, untying his painted and dirty apron, shakes it out with all his might, causing the chips, dirt, and shavings to fly in every direction, while his deep voice rings out like the peal of a trumpet. The lame shoemaker next appears, bearing in his hand one of the farmer's heavy top-boots, which he was repairing when the waggon came up. He seems almost as much delighted as if the whole load were his own; his wife and children have been allowed to glean ever since the first day the reapers put their sickle into the standiog corn, and the poor fellow is grateful for such kindness. The deaf old grandmother, who seldom quits her creaking wicker-chair and spinniog-wheel in the chimmey-corner, comes ont, with her withered hand raised to shade the sunshine from her furrowed face, and, followed by the old grey cat, she raises the tin trumpet to her ear, and drinks in the glad sounds which she has been accustomed to hear through foursorce bygone harvests; and all the long evening the deaf old woman will be happy and talkative, telling about the May-days, and sheep-shearing feasts, and harvest-homes she attended when young, what she wore, and with whom she danced

Each in his narrow cell or over laid, The rude forefathers of the hamlet sleep.

who are now no more.

Each in his narrow cell or over laid,
The rude forefathers of the hamlet sleep.

Every one at all conversant with history has read the sufferings and privations which whole nations have endured in times of scarcity, and can well understind why in the olden time there was so much rejoicing over a plentiful harvest. The richest crop ever hangs upon a "slender thread;" the finest fields of corn that ever bowed in the breeze or glittered in the summer sunlight, a few days' rain may hlacken and destroy, and render unfit for food. Man cannot protect his crop against the elements, until it is garnered. Although the broad seas are now open, and ships from every coruer of the globe may pour foreign grain into every store-house in England, yet we shall be sorry to see the day when she puts her chief trust in such supplies. She is not yet prepared to turn her rich corn-fields into grounds for factories, nor to trust to other nations for her supplies of corn. England, from the very richness of its soil and beauty of its scenery, was ordained to be an agricultural country; and however far its great cities may in time extend, it must be the work of ages to blot out the farms, and homesteads, and green rural scenes which are still its greatest charms. Our merchauts and manufacturers stringgle on for years in close rooms and crowded offices, in the hope of at last retiring into some little village with its orchard, garden, and green field, and there to end their days in peace and tranquillity. Such a wish has ever been foremost in the bosoms of our great poets, statesmen, and philosophers. It is a distinguishing feature in the character of an Englishman; and perhaps in no other nation in the world is there such a thirst for this green retirement and domestic peace.

Antumn is a busy time with many animals as well as with man. The squirrel and several kinds of mice store up provision against winter, for although they hibernato a great portion of that season, yet a mild, warm atmosphere often awakes them, w

(and we know no higher authority) that it lays up no provision for winter. On the contrary, although the squirrel sleeps away a great portion of the cold season, it lays up ample stores—not all in one place, but concealing the different stores in the holes of several trees around its haunts. Autumn is, therefore, a busy time with this beautiful and clean little animal. The long-tailed field-mouse is a great hoarder of food for winter, which censists of nuts, acorns, corn, and a variety of seeds; and sometimes a pig will come smelling and rooting about, to discover the treasure, and devour it. The following, which we wrote some time ngo, to amuse a juvenile class of readers, will not be out of place here; it is supposed to embody the feclings of a long-tailed field-mouse, who sits hiding himself in a dark corner while a great hungry hog is eating up all his stock of provisions. "I wish it may choke you," said the field-mouse, "that I do, you great grunting brute! There go all my nice acorns, a dozen or more at a mouthful. Twelve long jonrneys had I in a day to the foot of the old oak tree to bring home a dozen of those—such a hard day's work that I could scarcely sleep a wink at night after, so much did my poor jaws ache; for I was forced to bring home every one in my mouth; and now that monster is gobbling up the whole hoard. He devours what cost me the labour of a month in a minute or two! Whatever I shall live on in winter I don't know. There goes my corn, too, which I dragged home, by an ear at a time, all the way from the harvest field on the other side of the wood, and with which I was often forced to rest two of three times during my journey; and sometimes I was compelled to drop an ear, and (and we know no higher authority) that it lays up no provision for winter. On field on the other side of the wood, and with which I was often forced to rest two or three times during my journey; and sometimes I was compelled to drop an ear, and fight some other field-mouse that had a longer tail than myself, who tried to take the ear away under the pretence of helping me home with it, when I knew well enough it was his own nest he intended carrying it to. I wish I were big enough to thrash that great, ugly, grunting brute; really it makes one feel savage to think that after so much fetching, and carrying, and striving from morning to night—packing all up so snugly together, and not leaving even a single grain littered about, that a great thief should come in this way, break into one's house, and eat np everything, rump and stump." Maturalists say, that, after such a disaster, the field-mouse will fight his way into another nest, and either oust the inhabitant, or fall in the attempt. Wilson has beautifully depicted the pleusure of wandering amongst the mountains at this season of the year. "The wanderer, or hunter," he says, or hunter," he says,

ys, Now meets on the bill
The new-waken'd daylight so bright and so stil;
And feels, as the clouds of the morning unroll.
The silence, the splendour ennoble his soul.
'Tis his on the mountains to stalk like a ghost,
Enshrouded in mists in which nature is losi,
Fill he lift's up his eyes, and flood, valley, and height,
In one moment all swim in an ocean of light;
While the sun, like a glorious banner unfurl'd,
Seems to wave o'er a new, more magnificent world.

The scream of the eagle, the bounding of the mountain-deer, and the thunder of the cataract, complete the picture, and add their voices to the solitude. "Insects still continue to swarm," says Forster, "and to sport in the sun from flower to flower: it ls very amusing to observe in the smnshine of an Angust morning their animation. The beautiful little blue butterfly is then all life and activity, flitting over the flowers and grass with remarkable vivacity. There seems to be a constant rivalship between this beauty and another no less elegant little beau, though of a different colour, frequenting the same station, attached to the same head of clover or of hare-bell; wherever they approach tion, attached to the same head of clover or of hare-bell; wherever they approach, mutual animosity seems to possess them; and, darting on each other with courageous rapidity, they buffst and contend until one is driven from the field, or to a considerable distance from his station, when the victor again returns to lis post in triumph; and this contention is renewed so long as the brilliancy of the sun animates their conrage." We have an admirable description of a butterfly that went out for a day's pleasure, written by the author of the immortal "Fagry Queen," who tells us how it at last reached a garden, and there

Arriving, round ahout doth file, From bed to bed, from one to tother horder; And takes survey, with curious busy eye, Of every flower and herb there set in order; Now this, now that, he tasteth tounderly; Yet none of them he sudely doth disorder.





			!			SUN			1		MO			:	DURA	TION	OF I	HOONLIGHT		H1GH	WATER	1.
M	w	ANNIVERSARIES, OC-		-		OUTH			RISE	_	Sout		SETS	Befo	re Su	nrise.	1 00	After Suns	et.	AT LONDO	BRIDE	Year.
n	D	CURRENCES, FES- TIVALS, &c.	R	ISES.	o'clo	re 12 oc k.	Height above horizon	SETS.	Afterno	- 1	After- noon.	Height above horizon	Morning.		O'Cloc		Moon'	O'Clock		Morning.	A "terno	
_	—		н.		M.	8.	_	н. м.	н.	. 16	н. м.	Deg.	н. м.	2h	4h.	5h.	2	7h. 8h. 10	h.	н. м.	и. м	
1	S	Prdge. shoot. beg	5	13	0	10	$46\frac{1}{4}$	6 46	6 2		11 26	-	3 34				14			1 10		0 244
2	S	13TH SUN. after	5	15	0		$46\frac{1}{2}$	6 44			Morning	4	4 41				•			1 50	$\frac{2}{2}$	
3	M	Trinity. Fire of London,	10	16	0	48	46	6 42		13	0 14	1- 2	5 50				16			2 30		5246
4	Tu	Alpha Lyræ souths 7h. 36m.	5	18	1	7	$45\frac{3}{4}$	6 40		38	1 2		6 59				17			3 0		0 247
5	W	Old. St. Bartholo.	5	20	1	27	$45\frac{1}{4}$	6 37	8	6		$43\frac{1}{2}$	8 14.				18		_	3 35		0 248
6	Тн	Beta Lyræ souths 7h. 42m.	5	21	I	47	45	6 35		34	2 40	1	9 27			_	19			4 10		0 249
7	F	Eunurchus	5	23	$\frac{2}{2}$	7	445	6 32	9	4	3 3]	515	10 40		_ _	-	20		_	4 45 5 25	_	$5 250 \\ 5 251$
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9	S	14TH S. aft. Trin.	5	26	2	48	433	6 27		26	5 20	$0.56\frac{1}{4}$	Afternoon			-	23		///-	7 0	7 3	
10	M	Gamma Aquilæ souths 8h.	5	27	3	$\frac{9}{29}$	435	$\frac{6}{5}$		18	6 17	756 3	2 13				$\frac{23}{24}$			8 10	8 5	
11	IU	Alpha Aquilæ souths 8h. 20m. P.M. Beta Aquilæ souths 8h. 21m.	10	29	3	~ -	401	6 23	Mornin	-	7 18	التناقبا ا	3 12			-	25			9 35		5 255
12	W	P.M. Alpha Cygni souths 9h. 5m.		31	3	50	425	$\frac{6}{6}$ 20	0 1	18	8 13		4 3 4 46				$\tilde{26}$			11 0	11 4	0.256
13	TH	P.M.	5	$\frac{32}{34}$	4	20	424	6 18	0 6	20 39	$\frac{9}{10}$ 11	503			<u>_</u> -	-	27			No Tide.	0 1	2 257
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18	Ti	G. I. and II. land.	5	40	5		$40\frac{1}{4}$	6 7	_	30		$33\frac{3}{7}$	7 9				2			2 55	3 1	5 261
19	w	Ember Week	5	42	6	17	403	6 5		39	2 12	1 4	7 36				3			3 35	3 5	
20	Тн	Beta Aquarii souths 9h. 24m.	5	43	6	38	$39\frac{1}{5}$	6 2		16	2 58	- 2	8 2				4			4 10	4 3	263
21	F	St. Matthew	5	45	6	59	$39^{\frac{7}{4}}$	$\tilde{6}$ $\tilde{0}$		19	3 44	00	8 32				5			4 40	5	264
22	s	Autumn com.	5	47	7	20	$38\frac{3}{4}$	5 5 8		52	4 31	-) -	9 6				6			5 20	5 3	265
23	S	16TH S. aft. Trin.	5	48	7	40	$38\frac{1}{3}$	5 56	Afterno	-	5 18	1 4	9 45				7			5 55	6 1	266
24	$\widetilde{\mathbf{M}}$	Epsilon Pegasi souths at	5	50	8	1	38	5 54	1 4	11	6 6	1203	10 30				9		<u> </u>	6 35	6 5	5 267
25	Tir	9h. 21m. F.M. Alpha Aquarii souths 9h.	5	51	8	22	$37\frac{3}{4}$	5 52	2 2	28	6 53	18 3	11 20				10		-	7 25	7 5.	5 268
26	W	St. Cyprian	5	53	8	42	$37\frac{1}{4}$	5 50		10	7 41	204	Morning				11			8 35	9 1	5 269
27	TH	Fomalhaut souths 10h. 24m.	5	55	9	2	$36\frac{3}{4}$	5 47	3 4	17	8 29	22	0 16	100			12		-	9 58	10 3	5 270
28	F	Sheriffs sworn	5	56	9	22	$36\frac{1}{2}$	5 45	4 1	18	9 17	25	1 17	-2			13			11 15	11 5	-, -
29	S	Michaelmas Day	5	58	9	42	36	5 43	4 4	17	10 8	281	2 23				14			No Tide.	0 1	272
30		17TH S. aft. Trin.	5	59	10	1	$35\frac{3}{4}$	5 41	5 1	[4]	10 54	323	3 31	1		71111	-100			0 40	1 (273
	- Marie		-				-					•										

SEPTEMBER.

THE SUN is in the sign Virgo till the 23rd, on which day, at 4h. 3m. A.M., he

enters that of Libra (the Balance), and Autumn commences.

On the 1st he is 95,806,000 miles from the earth. On the 1st he ise at ½° N. of E. by N. 1 and on the 23rd, at the E. He sets, on the 1st, at the W. by N.; and on the 23rd, at ½° S. of W. points of the horizon. His time of southing, in common clock time, and his height in degrees at the same time, are given for every data on the apposite approximation.

mon clock time, and his neight in degrees at the same time, are given for conjugation on the opposite page.

The Moon is in the constellation Aquarius on the 1st and 2nd; in Pisces and Cetus alternately, till the 7th; in Taurus, on the 8th, 9th, and 10th; iu Gemini, on the 1th and 12th; in Cancer, on the 13th; in Leo, on the 14th and 15th; in Virgo, from the 16th to the 19th; in Libra, on the 20th and 21st; in Ophinchus, on the 22nd and 23rd; near Aquila and Sagittarius, on the 24th, 25th, and 26th; in Capricornus, on the 27th; and in Aquarlus, till the 30th, on which day she passes into Pisces

She rises, on the 1st, at 53m. before the Sun sets; on the 2nd, at 4m. after he sets; from the 5th to the 16th, during the night; and from the 17th, during the day. She sets before the Sun rises, on the 1st and 2nd; during the day, from the 3rd to the 15th; and after the Sun sets, or during the night, from the 16th. She is on the Equator on the 4th and on the 17th. Her time of southing, in common clock time, and her height in degrees at the same time, are given for

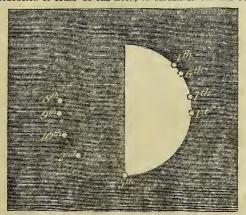
common clock time, and her height in degrees at the samo time, are given for every day on the opposite page.

She is near Saturn on the 4th; Uranus, on the 6th; Mars, on the 9th; Venus, on the 13th; Jupiter, on the 15th; and Mercury, on the 18th.

She is full on the 2nd, and new on the 16th; and an Eclipse of the Moon takes place at the former time, but invisible in this country.

During the night, which is common to the 8th and 9th, the Moon will occult several stars. The form of the illuminated part of the Moon at the times will be that of a half-moon nearly; and, consequently, one-half of the phenomena will take place at the bright limb, and the other at the dark limb. To facilitate the observation of these phenomena, the following diagram is annexed.

OCCULTATION OF STARS BY THE MOON, ON SEPTEMBER 8TH AND 9TH



	(will disappear			and re-appear			M.	
71 Taurl	at the place	1 at 8 10	1 P.M.	at the place	2 at 8	10	47	P.M.
	marked)		marked)			
Theta 2 Ta	auri	3 at 8 11 1	0 ,,	••	5 at 8	11	37	
80 Taurl	"	4 at 8 11 2	7	21	8 at 9			
81 Tauri	"	6 at 8 11 4	0 ,	32	9 at 9			
85 Taurl	"	7 at 9 0 1	3 A.M.		10 at 9	1	13	"
	- 1- 1- 4h a aomai					•		"

MERCHY is in the conscenation virgo throughout the month. He is an evening star; and sets, from the 1st to the 25th, at 28m. to 30m. after the Sun sets; he is, therefore, not very favourably situated for observation. He sets, on the 6th, at the W.; on the 16th, at the W. by S.; and on the 28th, at the W.S.W. points of the horizon. He is moving eastward among the stars during the month; is near the Moon on the 18th, and Spica Virginis on the 20th, as shewn in the annexed diagram. He is at his greatest elongation on the 30th.

13 21 13 43

A.M.

24 6

PERIGEE

PATH OF MERCURY, FROM THE 6TH OF SEPTEMBER, 1849, TO THE END OF



Scale, 12 degrees to one_inch.

VENUS is in the coustellation Cancer till the 16th and in that of Leo, from the 17th.

She is a morning star throughout the month; and rises, on the 1st, at 1h. 23m. A.M.; and on the last day, at 2h. 33m. A.M.; at 9° N. of E.N.E. on the 1st, and at the E.N.E. on the 24th. She is moving eastward among the stars throughout the month; is near the Moon on the 13th; is moving towards Regulus till the 26th; is near this Star on the 27th; and moves eastward from it after the 27th, as shewn in the approxed disgram. as shewn in the annexed diagram.

PATH OF VENUS, IN THE MONTH OF SEPTEMBER, 1849.



Scale, 12 degrees to one inch

Mars Is in the constellation Taurus throughout the month.

Mars is in the constellation Taurus throughout the month.

He is visible throughout the greater part of the night; and rises, on the 1st, at 10h. 1m. p.m.; and on the last day, at 8h. 57m. p.m.; at 2° N. of N.E. by N. on the 1st, and at 3° N. of N.E. by N. on the 30th. His times of southing are given below; and he is, at those times, 6° above the horizon on the 1st day, and 61° 3° on the last day. He sets about 1½h. p.m. He is moving eastward among the stars, and is near the Moon on the 9th.

JUPITER is in the constellation Leo throughout the month.

He is a morning star; but visible for a short time only. Rises at 4h. 46m.

A.M. on the 1st, at 6° N. of E. by N.; and at 3h. 27m. A.M., on the last day, at 2° N. of E. by N. He Is moving eastward among the stars; and is near the Moon on the 15th.

SATURI is in the constellation Cetus throughout the month.

Moon on the 15th.

SATURN is in the constellation Cetus throughout the month.

He is visible throughout the night; and rises, on every day, near the east point of the horizon; at 7h. 43m. P.M., on the 1st; at 6h. 46m. P.M., on the 15th; and at 5h. 42m. P.M., on the 30th; and passes the meridian at an altitude of 39° nearly on every day. He moves very slowly westward among the stars; and is near the Moon on the 4th, and is in opposition to the Sun on the 27th.

URANUS rises about 4° N. of E. by N.; on the 1st, at 8h. 4m. P.M.; and on the last day at 6h. 8m. P.M. He souths on the 15th, at 2h. A.M., at an altitude of 48°; is moving slowly westward among the stars; and is near the Moon on the 6th.

the 6th.

9 9 0 23 8 45 0 21

Fe F	TIMES	OF THE PASSING	PLANETS THE MI	SOUTHI ERIDIAN.	NG, O	R	JUP	ITER'S SA	TELLITE	s.		occ	ULTATIO	NS OF ST	TARS BY	THE MOO	ON.
Days of	Mercury.	Venus.	Mars. Morning.	Jupiter. Morning.	Satu						Nan	nes of the S	Stars.	Times and re-	of disappea appearance Star.	arance	t the dark or bright mh of the Moon.
1 6 11 16 21 26 30	H. M. 0 53 1 2 1 10 1 15 1 20 1 22 1 22	н. м. 9 14 9 19 9 23 9 27 9 31 9 34 9 37	H. M. 6 4 5 56 5 48 5 39 5 29 5 20 5 11	н. м. 11 45 11 29 11 14 10 58 10 42 10 26 10 14	1 1 1 0	M. 48 27 6 45 224 3 rn.		ot visible, o near to			h¹ 27 Nu	Aquarii Aqnarii Piscium Piscium auri		$ \begin{array}{c c} 6 & \left\{ \begin{array}{c} 1\\ 1\\ 2\\ 2\\ 5 \end{array} \right. \\ 5 & \left\{ \begin{array}{c} 3\\ 1\\ 3\\ 1\\ 5 \end{array} \right. \\ 5 & \left\{ \begin{array}{c} 5\\ 1\\ 5\\ 1 \end{array} \right. \\ $	H, M. 6 35 P.M. 7 23 P.M. 8 43 P.M. 9 53 P.M. 0 28 P.M. 1 12 P.M. 0 32 P.M. 1 11 P.M. 0 36 P.M.		Dark Bright Bright Bright Bright Dark Bright Dark Bright Dark Bright
T	MES OF CH	IANGES	OF THE N	MOON,	the		RIC	HT ASC	ENSIONS	AND D	ECLINA	TIONS OF	THE P	LANETS.			
And	when she is	at her gree	atest distan	ce (Apo-	ays of t	MERC	URY.	VEN	us.	MA	RS.	JUPI	TER.	SAT	URN.	URA	NUS-
),or at her lea th in each Lu		e(Perigee),	from the	Days	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina tion North
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SEPTEMBER. - A COUNTRY FAIR.



They climb the pole, they run the races, They laugh to see the clown's grimaces; They leave behind all grief and care, And come light-hearted to the fair.

THERE is no place like a country air, wake, or statute, for getting a true insight into the characters of our English peasantry. There all reserve is laid aside, and Johnny and Molly do really enjoy themselves. A stranger might walk a hundred miles through the country, and never meet with a fithe of the character he will here pick up. Johnny invariably carries a stick in his hand, and, unless when talking, eating, or drinking, you find the knoh thrust into lus month. He wears high ank'le-boots, laced very tight, and twines the lace three or four times round the ankle before he fastens it. He has on worsted hose, either hlue or grey, and prefers having them ribhed. His breeches are either velveteen, corduroy, or velvet, with pearl buttons on the knees, and a large bunch of drah ribbon, the ends of which he likes to see hang a good way down; if these are new, he generally tucks up his smock-frock to show them. His waistcoat is either plush, or a light kind of fustian, stamped all over with spots, rings, squares, or diamonds; if he can get a pattern with half-a-dozen colours in it, he likes it all the better; for if it is large and staring he knows Betty will consider it very neat. His neckerchief is generally either red or yellow; and he likes the ends to hang out a good way, and to feel the "real India" hlowing abont his face. He ruhs up the down on his hat the wrong way to show how

thick it is of "beaver;" or he oves to see everything he wears stick out and be conspicuons.

Molly has cenerally a pair of pattens in one hand, and a cotton umbrella in the other. It matters not how fair or fine it may he—she bought them a Michaelmas or two hefore, and she argues that it is no uso having such things unless she brings them out. If she has a sweethcart, he generally carries the pattens, and they are the cause of a little attention on hoth sides, for she sometimes says, "Let me carrien' em a hit, John, to wresten thy fistes;" and he answers, "Noah, Molly, thankeen thee; I wool howd'em mysen." Her gown is the gaudiest she can purchase—the pattern either a great nunatural flower, or a trailing sea-weed, hordered with shells. She likes a red shawl, hecanse it can he seen a long way off. As soon as they get into the fair, John either buys a pound of gingerhread or auts, which he ties up in his handkerchief, leaving, however, one corner open, into which they can insert their hands; they crack and munch away while there is one left. Sometimes she says they're "mixed," and he says "Hey?" They then saunter round and have a look at the shows and hooths: he bnys a knife with three or four blades, which is only fit to cut hntter. Molly purchases a few yards of red or blue rihhon. Sometimes they are

asked to buy a rattle for a baby, a doll, or a cradle; and, ob! how they do laugh! Molly is compelled to dig her elbow into her sweetbeart's sides, and to say, "A'done, John, wilt?" They then pay a peuny each and have a look into a peep-show; when it is over Johnny wonders however they can get snch long streets and big houses into such a little place, and Molly answers that "It's all magic." They next try their fortune in a penny lucky-bag, which they are assured contains "all prizes and no blanks." Johnny gets a cotton stay-lace, and Molly a row of pins. They purchase a song of the ballad singer, which is "all about love and such like:" they then get into a swing-boat, and are tossed up and down until they begin to feel very queer indeed, for they bave eaten all the partry they conld fancy, to say nothing of apples, nuls, oranges, pears, plums, and ginger beer. They then adjourn to the public-honse "to rest and settle down a bit:" John meets a few acquaintance and tries to smoke a pipe; this, with a few glasses of ale, sets bis tongue a-going. There is generally a recrniting party in the room, and as the ale gets into bis noddle be talks about 'listing, at which Molly pulls his sleeve and says, "Duna be a fool, Johnny." He then tries a song; and, to make the tune and the metre harmonise, lays his accents as follows:—As I was a walkening out one 8-ve-nine

Ass I wass a walkëning out one ë-vë-nine All down hy a river si-dë, And a gazening all around me, A I-rish girl I spi-dë. Its red and ro-sëë was her lips, And so coal-black was her hair, And so coal-black was her hair, And so coal-black was her hair, I nd so coal-black was her hair, I nd so coal-black was her hair,

List red and ro-see was her lips,
And so cost-lewate was her hair,
And so cost-lewate was her hair,
And so cost-lewate was her hair,
And so cost-lewate her holes of gowd
This I-rish siridid was the roles of gowd
This I-rish siridid was the roles of gowd
He gets his comrade who is
drinking with him to feel bis arm, and sometimes bares it to show the strength
of his muscles. He tells bow he once lifted a sack of corn into the waggon,
without ever letting it rest upon bim, only tonching it with bis hands. He
would quarrel were it not for Molly getting mp and popping her pattens between
let lower and his opponent. Johnny gets balf-mellow, is ready for anything, and
fall ground it. Molly bas blokedup a formal companion, whose swe-cheart is an
fall ground it. Molly bas blokedup a formal companion, whose swe-cheart is an
fall ground it. Molly bas blokedup a formal companion, whose swe-cheart is an
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fall ground it. Molly bas blokedup a formal companion, whose swe-cheart is an
fall ground it. Molly bas blokedup and the same in the fall ground g

here and there the sable fir settles down into dark shadows hetween the alternate tints; and far as the eye can range along the wide outskirts of the forest it revels in the mingled hues of mountain, field, ocean, and sky, as if the flowered meadow, and the purple mountain, and the green billows of the sea, the hlazing sunset, and the dark clouds of evening, had all rolled together their bright and sombre hues, and gathered about the death-bed of the beautiful summer. Over the bedgerow trails the rambling briony; and we see hunches of crimson and green berries, balf-tempting us by their gushing ripeness to taste the poisonons juice which lies huried beneath their deceptive beanty. The hips of the wild rose rest their rich scarlet upon the carved ebony of the luscious blackberry; while the deep hine of the sloe throws over all the rich bloomy velvet of its fruit, as it stands crowned with its randy tiara of hawthorn berries. On the ground are scattered thousands of polished acorns, their carved and clear cups lying empty amongst the fallen leaves until gathered by the village children, who deck their rustic stools with these primitive tea-services, and assemble around them with smiling faces and looks of eager enjoyment, while they sip their sugar and water out of these old fairy-famed drinking vessels. I have attempted to describe the

beauty and tranquillity of the calm evenings which we see at the close of snmmer and the commencement of autumn, in a little poem entitled

THE EVENING HYMN.

Another day, with mute adieu,
Hss gone down yon untrodden sky,
And still it looks as elear and hiue
As when it first was hang on high:
Tho sinking sun, the darkening elou:
That drew the lightning in its rear,
The thunder tramping deep and loud,
Have left no footmark there.

The village bells, with silver chime, Come soften'd by the distant shore; Though I have heard them many a time, They never rang so sweet hefore. A silence rests upon the hill.

A listening awo pervades the air; The very flowers are shut and still, And bow'd as if in prayer.

And in this hush'd and breathless pause
O'er earth, and air, and sky, and sea,
A still low voice in silone goes,
Which speaks alone, great God, of Thee!
The whispering leaves, the far off mrook,
The linnet's warhle fainter grown,
The hive-bound bee, the homeward rook—
Ali these their Maker own.

Now shine the starry hosts of light, Gazing on earth with golden eyes— Bright sentinels that guard the night, What are ye in your native skies? I know not—neither can I know, Nor on what leader ye attend, Nor whence ye come, nor whither go, Nor what your aim nor end.

I know they must be holy things,
That from a roof so sacred shine,
Where round the heat of angel wings,
And footstops echo all divine.
Their mysteries I never sought,
Nor hearken'd to what seience tells,
For, oh! in childhood I was taught
That God amidst them dweils.

The deepening woods, the fading trees, The grasshopper's last feelhe sound. The flowers just waken'd by the hrevze, Ali leave the stillness more profound. The twilight takes a deeper shado, The dusky pathways darkor grow, And silence reigns in glen and glado, While atl is mute helow.

While all is mnte helow.

And other even as sweet as this
Will close upon as calm a day;
Then sisking down the deep ahyes,
Will, like the last, he swept away
Until eternity is gaind—
The boundless sea without a shore,
That without time for ever reign'd,
And will when time's no more.

And will with this is notice.

All wing semblance of the grave;
The dew steals noiseless on the rose,
The houghs have almost ceas'd to wave;
The silent sty, the sleeping earth,
Tree, mountain, stream, the humble sod,
All tell from whom they had their birth,
And cry, "Behold a God!"

In many places in the fields are now found numbers of spider-webs, sometimes in two or three thicknesses, one above the other; they are very annoying to the dogs while hunting, who are frequently compelled to tear them off with their paws. Numbers of these webs may at times be seen floating in the air like huge flakes of snow, and shining like silver as they descend in the sunshine. Partridges now resort to the stubble fields, having been compelled to the air like huge flakes of snow, and shining like silver as they descend in the sunshine. Partridges now resort to the stubble fields, having been compelled to retreat to cover during the noise and stir attendant upon gathering in the harvest. They prefer, when they have young ones, to nestle in the open fields, as they have there a better chance of escaping from stoats and weasels. Wood-owls as they have there a better chance of escaping from stoats and weasels. Wood-owls are now heard booting in the night: and during a heavy gale of wind, which brings down thousands of leaves at a gust, the rattling of the branches and the hooting of the owls form a very solemn concert, especially at midnight to the ears of a lonely wayfarer who is making a short cut homeward through an old wood. The air is also now filled with winged emigrants, the down of thistles and dandelions, which go sailing away over many a broad field before they alight, and pitch their tents, in which they sleep throughout the winter—then rise up in a new four in the coming spring. What a beautiful picture is now presented in the Mirror of the Months, when the numerous flock is driven to the fold as the day declines, its scattered members converging towards a point as they enter the narrow opening of their nigbtly enclosure, which they gradually fill and settle into as a shallow stream runs into a hed that has been prepared for it, and there sottles into a still pool. And, again, in the early morning, when the slender barric that confines them is removed, they crowd and hurry ont, gently intercepting each other; and, as they get free, pour forth their white fleeces over the open field, as a lake that has broken its hank pours its waters over the adjoining land; in each case the bells and meek voices of the patient people making music as they move, and the shepberd standing carelessly by leaning on his crook—even as shepherds did in the vale of Arcadia.

Another pleasant picture of autumn is the busy thatcher with the clear hright yellow straw strew





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D	D	CURRENCES, FES-	Ris	Es. B	fore 12	ght zon	SETS.	Riss Aftern		After-	ght	Sars. Morning.		Before Sunrise.		After Sunset.	AT HONDO	N DEIDGE.	Day of the Year
		TIVALS, &c.		°	efore 12 clock.	abe		AILCIA	001	noon.	Height above horizon	Morning		O'Clock.	Age.	O'Clock.	Morning.	Afternoon	72
	3.5	DI III		M. M	. 8.	Deg.	н. м.			н. м.	Deg.	н. м.		2h. 4h. 6h.	1	7h. 8h. 10h.	н. м.	п. м.	
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3	W	Old St. Matthew	6	5 1	0.58	$34\frac{1}{2}$	5 35	6 3	35	0 33	$46\frac{1}{2}$	7 11			17		2 35	2 50	276
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5	F	[lippe born, 1773	6	9 1	1 34	333	5 29	7 4	41	2 19	$53\frac{3}{4}$	9 43	1		19		3.45	4 5	278
6	S	Faith. Louis Phi.	6	10 1	1 52	$33\frac{7}{4}$	5 27	8 9	23	3 14	56	10 57	W				4 25	4 45	279
7	S	18TH S. aft TRIN.	6	12 1	2 9	33	5 24	9	13	4 12	563	Afternoon	1		20		5 10	5 30	280
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12	E	Gamma Aquilm souths at	1	20 1		212	5 13		-	8 52	$44\frac{1}{1}$	3 52			25		10 55	11 30	285
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10		Houses Parl. des.				$29\frac{1}{2}$	5 4			fternoon	4	5 36	-		Q		1 55	2 15	289
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18		St. Luke		30 1			5 0	1 -	37	1 37	24	6 31			2 -		3 5	3 25	291
19	F	[1827]	6 3		1 56	2	4 58			2 24	141	7 3	I.		3		3 40	4 0	292
20		Bat. of Navarino,	6 3	32 13	6	28	4 56		-	3 11	$ 19\frac{1}{2} $	7 39			4		4 15	4 30	293
21	S	20тн S. aft. Ткі-	6 3	34 15	16	274	4 54	11 3	35	3 59	$18\frac{1}{2}$	8 22			9 _		4 45	5 0	294
22	\mathbf{M}	nity. Battle of Trafal- gar, 1805	6 3	36 15	25	$27\frac{1}{2}$	4 52	Afterno	aro.	4 46	$18\frac{1}{2}$	9 9			6		5 20	5 40	295
23	Tu	Alpha Aquilæ souths 5h.35m.	6 3	18 15	33	27	4 50	1	7	5 34	194	10 2			7		5 58	6 20	296
24	W	Beta Aquilæ souths 5h. 35m.	6 4	10 15	41	263	4 47	1 4	15	6 21	$ 20\frac{3}{4} $	11 2			<u> </u>		6 45	7 10	297
25	TH	St. Crispin	6 4	2 15	48	261	4 45	2 1	81	7 8	$23\frac{1}{5}$	Morning.			5		7 45	8 30	298
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28	-	21st S. aft TRIN.		8 16		$25\frac{1}{2}$	4 39		0	9 31	343	2 20			12		11 35	11 59	301
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30	G. 1	Comalhaut souths 8h. 12m.	65			$\frac{23}{243}$	4 36	4 3	41	1 19	$45\frac{1}{4}$	4 47	1		14		0 45	1 6	303
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OCTOBER.

THE SUN is in the sign Libra till the 24th, on which day, at 0h. 16m. P.M., he enters the sign Scorpio (the Scorpion). On the 1st, he is 95,028,000 miles from the Earth.

On the 1st he rises 5° S. of E.; on the 11th, at E. by S.; and on the 31st, at E.S.E. He sets, on the 1st, at 5° S. of W.; on the 11th, at $\frac{1}{4}^{\circ}$ S. of W. by S.; and on the 31st, at $\frac{1}{4}^{\circ}$ S. of W.N. points of the horizon. His time of southing, in common clock time, and his height in degrees at the same time, are given for every day on the opposite page.

The Moon is in the constellations Pisces and Cetus alternately till the 5th; in that of Taurus, on the 6th and 7th; in Gemini, on the 8th and 9th; in Cancer, on the 10th; in Leo, on the 11th, 12th, and 13th; in Virgo, from the 14th to the 16th; in Libra, on the 17th and 18th; in Ophiuchus, on the 19th, 20th, and 21st; in Sagittarius, on the 22nd and 23rd; in Capricornus, on the 24th; in Aquarius, on the 25th, 26th, and 27th; aud in those of Pisces and Cetus alternately, till the card of the mouth end of the month.

She rises, on the 1st, at the same time as the Sun sets; from the 2nd to the 16th, during the night; from the 17th to the 30th, during the day; and at 29m. after the Sun sets on the 31st. She sets before the Sun rises on the 1st and 2nd; during the day, from the 3rd to the 17th; as the Sun sets, on the 1sth; and during the night, from the 19th.

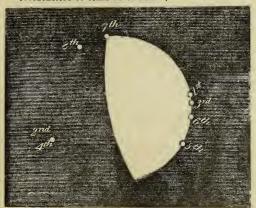
She is on the Equator the 2nd, the 14th, and the 29th. Her time of southing, in common clock time, and her height in degrees at the same time, are given for every day on the opposite page.

She is near Saturn on the 1st; Uranus, on the 2nd; Mars, on the 7th; Jupiter, on the 18th; Venus, on the 13th; Mercury, on the 17th; Saturn, on the 29th; and Uranus, on the 30th.

She is full on the 2nd, new on the 16th, and full a second time on the 31st; but without an Eclipse at these times.

She occupies nearly the same place in the heavens during the night, which is common to the 5th and 6th, as she did on September 8th, and occults several stars. The Moon at the time is 19 days old; and the form of her illuminated portion is that called gibbous. The disappearances occur at the bright limb, and the re-appearances of the stars take place at the dark limb, at the places shown in the annexed diagram.

occultations of stars by the moon, october 5 and 6.



will disappear at the place and re-appear 48 Tauri 1 at 5 11 38 P.M. at the place 2 at 6 0 42 A.M. marked marked Gamma Tauri 3 at 6 1 40 A.M. 4 at 6 2 53 5 at 6 6 24 ,, 6 at 6 6 30 ,, Theta 1 Tanri Theta 2 Tauri 8 at 6 7 28 7 at 6 7 24

The star Aldebaran will be near the Moon at the time of the latter occultations. MERCURY is in the constellation Virgo till the 6th; in that of Libra, from the 7th to the 18th; and in that of Virgo, from the 19th.

TIMES OF THE PLANETS SOUTHING, OR PASSING THE MERIDIAN.

He is an evening star till the 15th, and a morning star from the 25th. He sets on the 1st at 24m., and on the 20th at 4m., after the Sun sets. He rises on the 22nd at 1m., and on the 31st at 18m., before the Sun. He is not well situated for observation. He rises, on the 1st, at 2°_{1} S. of E.S.E.; on the 12th, at 6°_{2} S. of E.S.E.; on the 23rd, at the E.S.E.; and on the 31st, at 2°_{1} S. of E. by S. He sets near the W.S.W. at the beginning of the month. He is moving eastward among the stars till the 11th; is stationary among them on the 12th and 13th; and is moving westward from the 14th to the 31st. He is near the Moon on the 17th, and is in inferior conjunction with the Sun on the 24th.

VENUS is in the constellation Leo till the 16th; and in that of Virgo from the 17th.

from the 17th.

She is a morning star throughout the month; and rises, on the 1st, at 2h. 36m.

Am.; and on the last day, at 4h. 1m. Am.; at 7° N. of E. by N., on the 1st; at the E. by N., on the 12th; and at the E. polnts of the horizon, on the 27th. She is moving eastward among the stars throughout the month. She is in perilelion on the 21st; is near the Moon on the 1sth, and Jupiter on the 9th: therefore, at this time, she occupies that position in the heavens, relative to the two stars Regulus and Beta Leonis, that Jupiter does on October 9, in the diagram shewing the path of Jupiter this month, and inserted in the month of December.

MARS Is in the constellation Taurus on the 1st; and in Gemini from the 2nd till the end of the month. He is visible throughout the greater part of the night; and rises, on the 1st, at 8h. 5m. r.m.; and on the last day, at 7h. 25m. r.m.: at 3°½ N. of N.E. by N., on the 1st is, and at 6° N. of N.E. by N., on the 1st day. His times of southing are given below; his altitude above the horizon when he souths, on the 1st day, is 61°½; and on the last day, is 62°½. He sets at about 1l. r.m. He is moving slowly eastward among the stars, and is nearly stationary among them at the end of the month, as shewn in the diagram inserted in December, which is in continuation of that in August. He is near the Moon on December, which is in continuation of that in August. He is near the Moon on the 7th.

JUPITER is in the constellation Leo throughout the month.

He is a morning star; and rises at 3h. 24m. A.M., on the 1st, at 2° N. of E. by N.; on the 20th, at 2h. 31m. A.M., at E. by N.; and on the last day, at 1h. 58m. A.M., at 19 S. of E. by N. He is moving eastward among the stars; and is near Venus on the 9th, and the Moon on the 13th. See his path among the stars this month in the diagram in December.

JUPITER'S SATELITES.—The Immersions of the 1st take place at the distance of less than one-half, and those of the 2nd at about one-half of the diameter from

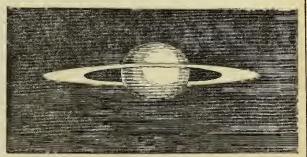
the Planet, to the right as seen in a non-inverting telescope, and to the left as seen through an inverting telescope.

through an inverting telescope.

SATURN is in the constellation Cetus throughout the month.

He is visible throughout the greater part of the night; and rises a little S. of E., on the lst, at 5h. 38m. P.M.; on the 15th, at 4h. 41m. P.M.; and on the last day, at 3h. 36m. P.M. His altitude at the time of southing, on the 1st day, is 39%; increasing gradually to 40° on the last day. He moves slowly westward among the stars; and is near the Moon on the 1st, and again on the 29th. His ring is now opened a little; and the following is his telescopic appearance this received.

TELESCOPIC APPEARANCE OF SATURN IN THE MONTH OF OCTORER, 1849.



Scale, 20 seconds of arc to one inch.

URANUS rises about 3° N. of E. by N., on the 1st, at 6h. 4m. p.m.; and on the last day, at 4h. 5m. p.m. He souths on the 15th, at 11h. 54m. p.m., at an altitude of 47°. He moves slowly westward among the stars; and is near the Moon on the 3rd, and again on the 30th. He is in opposition to the Sun on ,he 17th.

OCCULTATIONS OF STARS BY THE MOON.

Daye the Mo	Mercury.	V enus.	Mars.	Jupiter. Morning.	Satu	- 11		1st. Sat		2n	d. Sat.		Nam	es of the S	tars. Wagni:	Times and re-	of disappea appearance Star.	rance or l	the dark bright limb of the Moon.
1 6 11 16 21 26 31	H. M. 1 22 1 17 1 6 0 44 0 10 Morn. 10 55	H. M. 9 38 9 41 9 44 9 47 9 50 9 53 9 56	H. M. 5 9 4 58 4 46 4 33 4 19 4 4 3 47	H. M. 10 11 9 55 9 39 9 23 9 7 8 50 8 34	11 10 10 10 9	M. 37 16 55 34 13 52 32	D. 19	н. м.	A.M.	р. н. 13 4	M.		27 F 29 F	Tauri Piscium Piscium ar in Arie	5 5 5	1	H. M. 5 49 A.M. 6 42 A.M. 4 2 P.M. 5 1 P.M. 5 58 P.M. 6 54 P.M. 6 28 P.M. 7 24 P.M.		Bright Dark Dark Bright Dark Bright Bright Bright Bright Bright
	ES OF C				of the nth.	_	MERC	URY.		IT ASC	ENSIONS	AND	DE	CLINATIO			URN.	URA	NUS.
gee),	or at her les	st distance			Days (Mor	Ri	ight	Declina- tion South.	Right Ascension	Declina	Right	Dec	lina- ion rth.	Right Ascension	Declina-	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North.
LAST NEW FIRST			16 5 1 24 7	33M.P.M. 4 A.M. 3 P.M. 4 A.M. 17 P.M. 0 A.M. 0 A.M.	1 6 11 16 21 26	14h. 14 14 14 14 13	. 2m 17 26 23 9 47	15° 31' 17 12 17 59 17 25 15 3 11 23	10h, 18m 10 41 11 4 11 27 11 50 12 12	11° 2° 9 2° 7 1° 5 2° 4° 0 2° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°	2 5 57 5 6 5 2 6 11 5 6 17	23° 23° 23° 23° 23° 23° 24°	27 27 36 45 54 4	10h.51m 10 55 10 58 11 2 11 5 11 9	8° 22' 8 0 7 38 7 16 6 55 6 35	0h. 20m 0 18 0 17 0 16 0 14 0 13	0° 45' 0 54 1 3 1 11 1 19 1 26	1h. 33m 1 33 1 32 1 31 1 30 1 30	9° 6′ 9 2 8 57 8 53 8 49 8 44

JUPITER'S SATELLITES.

OCTOBER. - NUTTING IN THE WOODS.



Oft wandering by the woodland side You hear the distant laughter sound; Or see the snow-white 'tirtles glide Where the green hazels most abound: All merry, noisy, nutters they, Who through the 'tangling forests stray.—The Country.

ALL the wood-nuts gathered before the commencement of this month are worthless, when compared with those that still hang upon the hazels. Like ripe acoms, a jerk of the branch sends them dancing out of their vandyked cups, and they come tumbling down upon the moss, or sliky forest-grass, like large dark brown beads, every one ripe, and almost ready to burst out of its shell, while each kernel is covered with a rich russet cloak.

As I last year entered, somewhat lengthly, into our country nutting excursions. I need only refer to the present engraving as illustrative of a scene before described. I have before dwelt upon the solemn associations awakened by the close of autumn. For although all its varied hues are beautiful to look upon, still it is a melancholy sight to witness the falling leaves; to see all that rendered summer so green and lovely, unhoused—drifted from their shady dwelling-places, leaving their old homes behind, naked and desolate; and wandering, as it were, houseless along the brown highways, over the wet and withered grass, or lying down to dle in the wayside ditches. Who can walk abroad at such a season, without thinking of that change which must, in the end, take

place—without turning our thoughts to those who have gone before us, like companiens who but set out earlier in the day, and gained the inn where we must all sleep, and retired to rest before we arrived?

In my "Year Book" I have described a forest scene, familiar to me from the days of my childhood; and as a railway is overthrowing these old wild-wood fastnesses, I shall transfer this picture of a spot that had stood unaltered for centuries, to the descriptive pages of this Almanack, conscious that I should but weaken my word-painting were I to alter my first sketcb.

Acres of huge gores bushes stretched to the very verge of this wild forest-land, many of them standing higher than the head of a tall man; while upon the edge of the woodland grew thousands of wild brambles, that had trailed over the low bushes, and formed a broad impenetrable hedge, so wide that several waggons, could the underwood have borne the weight, might have been driven over them abreast. This waste had never been cultivated since the dawning of creation. For miles around, there was no vestige of the hand of man. Here grew hawthorns so huge, old, grey, and weather-beaten, that they looked as if a score

of stems had been twisted into one, and become so hardened by time, that you might fancy they were bars of iron fused together so closely, that neither storm nor thunder had been able to rend them. Here and there uprose giant crabtees, their gnarled and knotted stems overgrown with green and yellow moss, and long flaky lichens, which hung like ragged drapery from the boughs. Even the sun-stained fruit, when mellowed by the mists of October, was sour as vinegar. Some of the trunks were hollow and decayed; and looked like strange skeletons that had lived at a remote period of time, when man was not, so white, bleached, and monstrous were their forms; and from the decayed centred had, in some places, spring up another tree, that wayed green above the old. white, bleached, and monstrous were their forms; and from the decayed centre had, in some places, sprung up another tree, that waved green above the old desolation. Scattered at picturesque distances, we saw immense oaks, whose shadows stretched far and wide, and struck the mind with wonder, to behold such gigantle arms spread out with no other support than the iron body from which they sprung; while, to pace the length of a single bough, seemed like treading a long gallery. Many of these had, centuries ago, been struck by the thunder-bolt, or blackened by the red-armed lightning; yet lived on, iuspite of the blaze which had burnt their branches and singed their ancient heads—standing like monuments that marked some old world which had, undated ages ago, passed away, and left the skeletons of those might y faints to proclaim the bolk passed away, and left the skeletons of those mighty giants to proclaim the bulk and vastness of that unrecorded era. And all around this wild and wooded and vastness of that unrecorded era. And all around this wild and wooded wilderness of hoary trees, there extended a pathless waste of entangling underwood where the hazel and the hawthorn, the black bullace, and the armed sloe were blended, and matted, and twisted with the holly and the bramble and the prickly gorse; while the woodbine climbed high over all, and, like a lady from her turret, looked out upon the wild and silent scene. It was only where the red fox, or the badger, or the daring hunter had forced a passage, that we were able to make our way along this bushy barrier. It recalled those graphle lines of Chaucer's, of a forest,

In which there dwelleth neither man nor beast, With knotty, knurry, barren trees old, Of stubby shape, and hideous to behold.

Of stubby shape, and hideous to behold.

Above this vast covert of erocked branches, and spiked bushes, and trailing briars which seemed to have been struggling for ages for the mastery, there hovered scores of birds of prey—hawks of every species, dusky ravens, and horned owls that stared upon us from out the hollow trees at noon-day, and went sailing across the wild underwood, and between the ancient branches of the trees, like winged ghosts. And ever from the tangled thicket started some wild animal, the hige fox, or the grey badger, the savage wild cat and the climbing marten; and we sometimes disturbed the stoat as he fed upon a young hare, or drove the weasel from his banquet, and picked up the ringdove, warm and bleeding, that he was feeding upon; or saw the ferce eyes of the polecar glaring upon us, as if wondering why we had disturbed his solitary dominions. Great hairy bats went gliding by in the twilight, with their leathern wings outspread; and black water-rats made a hollow sound, as they plunged into the forest brook, and were soon lost in the dark water, or among the black and rotten leaves. As I painted the same scene in verse, in my youthful years, I here present my readers with the other picture.

Msjest'e grandeur stamp'd that solemn scene. For weary miles an outstretch'd forest lay, But seldom trod by aught of mortal mien. Here nature sat enthroned in wild ar-sy, Profusely deck'd with therms and witching bay, It rebrosd oaks threw afar their shady arms. O'or creeping brambles that did wildly stray Around the trunks, where dark-leaved by swarms, And none the ruddy squirrel 'mid its play alarms.

my readers with the other picture.

And none the ruddy squirrel 'mid its play alarms. The sul'en crab-tree flourish'd 'neath the beech; Above, the sable pine did rear its head, As if the silver clouds it fain would reach So high these dark and branchy boughs were spread The rattling cones wild winds profusely shed: Luxuriant box stood robed in gloomy hue, And cypress rodded o'er the g'en's dark bed, Where stately ash o'ertopy'd the bow-famed yow—All burst in silent grandeur on th' astonish'd yiew.

All outs in sient grandeur on it astonish d view. The globs and glades, and dells were sprinkled round With healing herbs and variegated flowers. No studied art be leek'd those native bowers:

No studied art be leek'd those native bowers:
There nature's rugged breast bared to the shewers, Bore in its solitude the roses' bloom; Where high the woodbines rear their painted towers, There unseen violets 'mid the ferest gloom Blossom and die, and blow again above the tomb.

Blossom and die, and blow again above the tomb.

No habitation graced that rugged scone,
No pathway bore the track of man or steed:
lark trees those dells from scorching suuleams screen,
Where sharp-beak'd hawks and speckled songsters feed,
And diving otters shake the tuffed reed.
No cultivation hore smooth'd nature's face;
Nor waving corn, nor hedge-engirded mead,
Across this savage scene the eye could trace:
It stood as when the Cymri here did load the chase.

It stood as when the Cymri here did load the chase.

It has no doubt struck many, during an autumn ramble, how slowly and almost imperceptibly the changes of the months take place. The seasons themselves are striking enough, but to watch the slow progress by which they reach the different land-marks of the year, is like tracing the movement of the hand of a watch around the dial's face. Take a home garden, for instance—the smaller the better for observation—and recal the time when the first searlet runner, nastritum, sweet pea, or convolvulus sprang up, each a tiny speck of green above the mould. For days and days you can scarcely perceive them increase; the two little leaves grow larger by degrees; and then other tiny buds shoot out; and yon are lost, between noting the expansion of the first, and the slow advance of the latter. Time rolls on, and they begin to twine and flower, one here, another there; you marvel my the one is so early, and the other so late. The first flowers attract your attention the most, and when the whole row is hung with bloom, you are anxious to flud the first pod. It is the many stages through which vegetation passes that confuse observation, that induce us take so little note of time, that causes autumn to steal upon us almost unawares. It is the same with the lengthening and shortening of the days: we see the lours, and not the minutes—the rock, but not the coral insect that was instrumental in raising it.

Nor less wonderful is the depurture of the birds—which we find alluded to in

Nor less wonderful is the departure of the birds-which we find alluded to in Nor less wonderful is the depurture of the birds—which we find alluded to in the Old Testament—a proof that the habits of these winged voyagers were the same three thousand years ago. For in the Book of Jeremiah it is written, that "The stork in the heavens knoweth her appointed times: and the turtle, and the erane, and the swallow observe the time of their coming." In Mr. Couch's lateresting work on Animal Instinct, of whith I have, more than once, made favourable mention, I find the following original observations on the migration of birds.:—"The time of the withdrawal of the swallows and martens is more irregular than that of their coming, and begins with the swift, which usually

takes its flight in the first or second week of August-the whole colony disappearing at once—the actual departure being preceded, for a few days, by exerciscs in flying, which seem to be practising in sport what they snon expect sepearing at once—the actual departure being preceded, for a few days, by exercises in flying, which seem to be practising in sport what they snon expect seriously to execute. They may be witnessed ascending in a spiral manner, and in very close phalanx, with even more than their usual rapidity, to a very great helght; and having two or three times executed this movement, they suddenly slik down to their nests, after which, till the next day, they are no more to be seen. A remark often made—that the swallow tribe go away earliest in the warmest scasons—appears to be correct; but whether there be any physiological reason for this, is a matter of doubt. The principal cause of their early readiness for migration scems to be, that less interruption has been thrown in the way of the formation of the nest; and that there has been a greater abundance of insect food for the support of the young, which has accelerated their growth. In an unfavourable season in these respects, or when other causes have occurred to retard the maturity of the brood, the birds have not only been kept later, but in many instauces the migratory instinct has grown sufficiently strong to overcome the force of parental affection, and the brood has been left to perish in the nest. To attend on a helpless young one, a single swift has been known to remain for a fortnight after the departure of its eompanions; and It is a frequent occurrence for the swallows return to their nests, only for the sake of sleep, or as a convenient resting-place; and about the middle of September, after having shown their social disposition by assembling in companies, the earliest of them enter upon their autumnal migration, for which the proper season is the month of October. The flight to their winter's destination is less direct than their coming; so that it is not uncommon for small parties to appear again, long after they have seemed to have left us. Such is frequently the case in November."

The yelden woodpecker laughs loud no more;

The yelden woodpecker laughs lo

The golden woodpecker laughs loud no more;
The yee no longer mates; no longer scole's
The saucy jay. Who seesthe goldfinch now
The feather'd groundsel pluck, or hears him sing
I o bower of apple blossoms perch'd? Who sees
The chimney-haunting swallow skim the pool,
And quaintily dip, or hears his scaly song
Twitter'd to dawning day. All, all are hush'd.—HURDIS.

I have before pointed out the beautiful days that often come with the close of October: the fine blue middle-tint that langs over the landscape is never sent o greater perfection in England than at this season of the year, when the weather is settled.

greater perfection in England than at this season of the year, when the weather is settled.

Those who love to ramble in the country will find as much amusement and instruction now, as they did in the midst of summer. For many a lovely uook, then hidden by masses of foliage, will now break in new beauty upon the eye. Weeds and flowers have run into seed; and great is the variety of forms they have assumed in this new stage of existence. Urn, and cup, and bell, and ball, and vessels of almost every shape, stand laden with the flowers of another summer; and but wait for the strong winds to blow open the doors of their garners, that they may scatter their seeds upon the earth. But these will soon pass away, and then, instead of the faded foliage of autumn, we shall see the hedges shorn of their withered leaves, and all bare and naked, saving where they are hung with hips and haws, or where the bright, holly and the dark-leaved ivy throw over them a patch of green. We shall soon lhear the wind hunding about the honse at night, like a hunerly wolf, and trying the doors and window shutters, as if determined to enter; but finding no way there, getting into the chimney, and there bellowing, and moaning, and growling, as if it stuck fast. And while wo listen to such sounds, we shall recal the darkness that reigns over the sea; the ships that are driven like autumn leaves before the mighty storm, of shoals, and sand, and away, and go moaning along the beaten beach, as if hunery for their prey. We shall think of desolute moors, and lonely roads, and solitary toll-gates that stand on the edges of treeless commons, or between the wild sweep of lonesome woods where groaning branches ever utter deep dolorous sounds, as if moaning for very pain—places where travellers have been way-laid, and where gibbet-po-ts stand, whose irons ever swing and creak. Spots that have—

A weird-like and eirey lock.

A weird-like and eirey lock.
As, if murder lucked any where, there it would be:
Ruinous, shadowy, frarsome, and lone its own,
Abounding with whispers that seem not its own,
Where sounds, not of earth, shake each grey old a h troe.





			-	-		SUN			-			1001			1	DUE	ATIO	ON OF	MOONI	JGHT.	H	IGH	WATER	1:
M	W	ANNIVERSARIES, OC- CURRENCES, FES-			_				Rie	PA.		UTH		SETS.	Be	fore	Sunri	se. w	Af	er Sunset.	AT L	ONDON	BRINGE	ay of Year.
D	D	TIVALS, &c.	R	ISES.	Befor	re 12	Height above horizon	SETS.		noon	Afte	er-	Height above ho won	Morning.		O'CI		Moon'	10		Mar	rning.	Afternoor	Q 62
	_								_						21	1. 4	h. 6h	. 2	61	O'Clock.	-			
1	Tu	All Saints	6	м. 56	16	16	Deg. 24	4 3°		м. 37	и. О	м.	Deg. 521	н. м. 7 23		_	TT	1 200			1 n.	5	2 24	305
$\hat{2}$	F	All Souls. Mich.	6	56	16	17	233	4 3	$\begin{bmatrix} 3 \\ 6 \end{bmatrix}$	17	1		$55\frac{1}{2}$		1 -	.		16		_ _ _	$\parallel \frac{z}{2} \parallel$	44	3 5	
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4		22ND S. aft. TRI-		1	10	10	003	4 2	7 8	3	3	2	57	11 1		_					4	10	4 30	0.00
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6		St. Leonard	12	4		12	$22\frac{1}{2}$	4 2	1 10	18	5		$53\frac{1}{4}$	Afternoon				2] 5	40	6 10	310
7		Fomalhaut souths 7h, 42m	7	6	16	- 8	224	4 2	$^{3 11}$	30	5	58	$49\frac{3}{4}$	1 25							6	35	7 10	311
8	TH	Alpha Pegasi souths 7h, 46m.		7	16	4	22	4 2	2 Mor	ning.	6	50	$45\frac{3}{4}$	1 57	4			2.	3 ///		7	45	8 27	312
9	F	P. of Wales born	7	9	15	59	$21\frac{1}{2}$	4 2	$0 \mid 0$	42	7	40	$41\frac{1}{2}$	2 27		1		24			9	10	9 50	313
10	S	Alpha Pegasi souths 7h.	7	10	15	53	$21\frac{1}{4}$	4 1	9 1	53	8	28	$37\frac{1}{4}$	2 52				2	5 ///		10	30	11 10	314
11	S	23RDS.aft.TRIN.	7	12	15	47	21	4 1	8 3	2	9	15	$32\frac{3}{4}$	3 15				20	3		111	40	No Tide.	315
12	M	Camb. Term div.	17	14	15	39	$20\frac{3}{4}$	4 1	6 4	11	10	0	$28\frac{3}{4}$	3 40				2	7 1/1/1		0	5	0 30	316
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14	W	Alpha Andromedæ souths	17	18	15	21	$20\frac{7}{4}$	4 1	2 6	25	11	32	221	4 32							1 1	35	1 50	318
15	Тн	Machutus	11/2	20	15	11	20	4 1	1 7	29	After		7.0	5 1							1 2	10	2 30	319
16	F	Polaris souths 9h. 21m. P.M.	11/2	22		0	193	$\frac{1}{4}$ i	0 8	30	1	5	183	5 35				2			$\parallel \tilde{2}$	45	3 0	000
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18	S	24TH S.aft.TRIN.	11/2	25		35	2	4	8 10		2	40	181	7 1				// 4			3	50	4 7	
19	M	Ed. King & Mar.	1/2	27	14	22	10	4	7 11	5	3	28	$19\frac{3}{4}$	7 52				5	4		4	20	4 40	1000
20	Tu	Princess Royal b.	1/2	$\frac{27}{28}$		8	183	4.	$\frac{1}{6}$	46		15	$\frac{154}{22}$				物	6			4	55	5 15	T = 11
21	W	St. Cecilia	11/2	30		52	4	4					$\frac{24}{24^{\frac{3}{4}}}$	8 49			*************************************	7			a) -	35	5 55	
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24	S	25TH.S.aft.TRIN	11.	35		3		4	$0 \mid 1$	42		20		Morning.			7				$\parallel 8$	15		328
25	S		1	36		44		3 5	- 1		8	8	$41\frac{3}{4}$	1 9	-//			1			9	28	10 5	1-
26	M	Princess Mary	17	38	1	26	1 - 4	3 5			8		$46\frac{1}{2}$	2 21		- 200					10	35	11 10	
27	lu	Adelaíde born, 1833.	117	39	12	6	1 - 4	35			9	49	$50\frac{3}{4}$			1-					111	40		331
28		Alpha Arietis souths 9h. 27m. P.M.	11/	40	11	46	$ 17\frac{1}{4}$	3 5	5 3	30	10	45	$54\frac{1}{4}$	4 52		-	1/2	i.		_ - -	0	5	0 30	
29		1 30III. P.M.	17	42	11	25	17	3 5	4 4	6	11	43	$56\frac{1}{2}$	6 12			1				1 0	50	1 15	
30	\mathbf{F}	St. Andrew	11%	7 44	111	3	16	3 5	4 4	53	Mor	ning.	574	7 29	1		-			_	1	40	2 0	334
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NOVEMBER.

THE SUN is in the sign Scorpio till the 22nd, on which day, at 8h. 53m. A.M., he enters the sign Sagittarius (the Archer).

enters the sign Sagittarius (the Archer).

On the lst, he is 94,213,000 miles from the Earth. He rises on the 1st, \$\frac{5}{2}\$ S. of E.S.E.; and on the 26th at the S.E. by E.; he sets on the 1st, at 1° S. of W.S. W., and on the 26th, at the S.W. by W. points of the horizon. His time of southing, in common clock time, and his height in degrees at the same time, are given for every day on the opposite page.

The Moon is in the constellation Taurus till the 3rd; in Gemini, on the 4th and 5th; in Cancer, on the 6th; in Leo, on the 7th, 9th, and 9th; in Virgo, from the 10th to the 13th; in Libra on the 14th and 15th; in Ophiuchus, on the 16th and 17th; in Sagittarius, on the 18th and 19th; in Capricornus, on the 20th; ln Aqnarius, on the 21st, 22nd, and 23rd; in Pisces and Cetus alternately, till the 28th; and in Taurus, till the end of the month.

She rises after the Sun sets, and before

She rises after the Sun sets, and before he rises, or during the night, till the 14th; during the day, from the 15th to the 28th; and shortly after snnset, on the 29th and 30th. She sets during the day till the 13th, and during the night from the 14th.

She is on the Equator on the 11th and on the 25th. Her time of southing, in common clock time, and her beight in degrees at the same time, are given for

degrees at the same time, are given for every day on the opposite page.

She is near Mars on the 4th; Jupiter, on the 9th; Venus, on the 12th; Mercury, on the 13th; Saturn, on the 25th; and Uranus, at midnight on the 26th. She is new ou the 14th, and full on the 30th; but without an Eclipse at both times.

She occults several stars during the night, common to the 29th and 30th, and arrows them Aldebergs. She is full and therefore, both the disappearances and

among them Aldebaran. She is full, and therefore both the disappearances and re-appearances take place at the bright edge of the limb, at the places shown in the annexed diagram in which V indicates the highest point of the Moon at the time of the occurrence of each phenomenon.

OCCULTATIONS OF STARS BY THE MOON, NOVEMBER 29 AND 30.

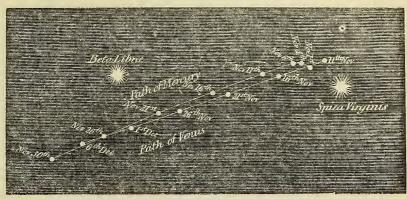


D. H. M. D. H. M. will disappear at the place and re-appear at the place 48 Taurl 1 at 29 6 2 P.M. 2 at 29 6 57 P M. marked marked Gamma Tauri 3 43 5 at 30 0 12 A.M. 6 at 30 0 18 ,, 8 at 30 1 8 ,, 11 at 30 3 43 ,, 75 Tauri Theta 1 Tauri 9 at 30 1 12 A.M. 7 at 30 0 52 ,, star in Taurns ,, 10 at 30 2 11 ,, 12 at 30 4 42 Aldebarau

MERCURY is in the constellation Virgo till the 16th; and in that of Libra, from the 17th.

How the 170. He is a morning star; and rises on the 1st, at 1h. 27m.; on the 7th, at 1h. 55m.; on the 8th, at 1h. 54m.; on the 15th, at 1h. 48m.; and on the 30th, at 59m. before the Sun rises. He is favourably situated for observation throughout the month. He rises on the 1st, at 1°_3 S. of E. by S.; on the 20th, at E.S.E.; and on the 30th, at 8°_4 S. of E.S.E. He is near the Moon on the 9th; and is at his greatest west elongation on the same day. His path among the ctars is the sum of the 1st. At 1 and 1st. stars is shown in the annexed diagram.

PATHS OF MERCURY AND VENUS, DURING THE MONTH OF NOVEMBER, 1849, WITH RESPECT TO THE FIXED STARS,



Scale, 12 degrees to one Inch.

VENUS is in the constellation Virgo till the 22nd; and in that of Libra, from the 23rd.

She is a morning star throughout the month; and rises on the 1st, at 4h. 5m. A.M.; and on the last day at 5h. 33m. A.M.; at 4° S. of E. on the 1st; at E. by S. on the 11th; and at E.S.E. on the 27th. She is moving eastward among the stars throughout the month; is near the Moon on the 12th. Her path among the stars during the month is shown in the preceding diagram.

MARS is in the constellation Gemini throughout the month.

MARS IS IN the constellation Gemini throughout the month.
He is visible throughout the sight; and rises on the 1st, at 7h. 21m. P.M.; and
on the last day, at 5h. 4m. P.M.; at 6° N. of N.E. by N. ou the 1st; and at 7° N. of
N.E. by N. on the 30th. His times of southing are given below; and his altitude
above the horizon when he souths, on the 1st, is 62° 1; and on the last day, is
64° 1. He sets at about 11 1 m. A.M. He is stationary among the stars till the 16th;
and is moving slowly westward from the 17th to the end of the month, as is shown
in the diagram in December; and is near the Moon on the 4th.

JUPITER is in the constellation Leo throughout the mouth.

He is a morning star; and rises at lh. 55m. a.m., on the lst, at l°_{1} S. of E. by N.; and on the last day, at 0h. 28m. a.m., at 3°_{2} S. of E. by N.; souths at an altitude of 4°_{2} on the lst; decreasing to 4°_{2} on the last day. He is moving eastward among the stars; and is near the Moon on the 9th.

eastward among the stars; and is near the Moon on the 9th.

JUPITER'S STATELITES.—The Immersions of the 1st take place at the distance of one-half; those of the 2nd, at that of one diameter, nearly; those of the 3rd take place at the distance of one and a half, and that of the 4th at two diameters from the Planet. The Emersion of the 4th takes place at the distance of one and a half diameter, nearly. All these phenomena occur on the right of the Planet, as seen through a telescope which does not invert, and to the left as seen through an inverting telescope.

SATURN is in the constellation Cetus throughout the month.

He is an evening star, and rises between 1½h. and 3½h. P.M. He souths at an altitude of 40° on the 1st; and of 40°3 on the last day. He sets on the 1st, at 3h. 24m. A.M.; andon the last day, at 1h. 24m. A.M.; at a point a little S. of W. He moves slowly westward till the 15th; and is stationary among the stars daring the remainder of the month.

URANUS rises about 2° N. of E. by N., on the 1st, at 4h. 0m. P.M.; sonths on the 15th, at 9h. 47m. P.M., at an altitude of 47°; and he sets on the 1st, at 5h. 36m. A.M.; and on the last day, at 3h. 37m. A.M. He is moving slowly westward among the stars; and is near the Moon on the 26th.

ays of Month.	TIMES	OF THE I	PLANETS THE ME	SOUTHII	NG, OR	JUPITER'S S	ATELLITES.	OCCULTATIO	NS OF STARS BY THE MO	
Days the Mo	Mercury.	Venus.	Mars.	Jupiter.	Saturn.	Ist Sat. Immersion. I.	es of 3rd Sat. Emersion. E.	Names of Stars.	Times of disappearance and re-appearance of the Star.	At the dark or bright limh of the Moon.
1 6 11 16	H. M. 10 50 10 36 10 33 10 38	H. M. 9 57 10 0 10 3 10 7	H. M. 3 44 3 26 3 6 2 45	H. M. 8 31 8 14 7 57 7 40	H. M. 9 28 9 7 8 47 8 26	D. H. M. 4 3 35 A.M. I. 11 5 28 A.M. I. 27 3 43 A.M. I.	D. H. M. 22 2 45 A.M. E. 29 3 19 A.M. I. 29 6 42 A.M. E.	3 Cancri 29 Capricorni	6 \begin{cases} \text{p. H. M.} \\ 5 & 11 & 45 & \text{p.M.} \\ 6 & 0 & 25 & \text{A.M.} \\ \ 21 & 7 & 29 & \text{p.M.} \\ 21 & 7 & 45 & \text{p.M.} \end{cases}	Bright Dark Dark Bright
21 26 30	10 46 10 57 11 6	10 11 10 15 10 19	2 22 1 58 1 38	7 23 7 6 6 52	8 6 7 46 7 30	2nd Sat. 14 4 11 A.M. I.	4th Sat. 12 4 19 A.M. I. 29 2 24 A.M. E.	115 Tauri For occultation	$\begin{bmatrix} 5\frac{1}{2} & 30 & 9 & 35 & P.M. \\ 30 & 10 & 41 & P.M. \\ n & on Nov. 29, and 30, see about$	Bright Dark

TIMES OF	THANC	ES O	r mi	IF M	ON.	the .					RIG	нт	ASCI	ENS	10N	SAN	D DEC	LINATIO	NS OF T	HE PLAN	TETS.		
					1	£4		1ER	URY		1	VEN	NUS.	1		MA	RS.	JUP	ITER.	SAT	URN.	URAI	NUS.
And when sh gee), or her l Earth, in eac	ast distar			Days of the Month.	Rig		Decl tio Sou	n	Rig Ascen	ht sion	Declin tion Sout	1	Ri	ght usion	Declioa- tion North.	Right Ascension	Declioa- tion North.	Right Ascension	Declina - tion South.	Right Ascension	Declina- tion North.		
LAST QUAR NEW MOON FIRST QUAR FULL MOON PERIGEE APOGEE		7 14 23 30 2 18	D. 8H 9 2 3 11	1. 23m. 13 24 25	A.M. P.M. A.M. A.M. P.M.	1 6 11 16 21 26	13 14 14	33m 38 55 20 48 18	8° 7 9 11 14 17	5' 51 24 51 35 15	13 4 14 1	9m 2 5 9 2	4 7 9 11	27' 49 10 27 40 45	6	25m 27 27 25 22 17	24° 17′ 24 29 24 43 24 59 25 16 25 33	11h. 13m 11 16 11 19 11 21 11 24 11 26	6° 11′ 5 53 5 36 5 19 5 4 4 50	0h.12m 0 11 0 10 0 9 0 9 0 9	1° 33′ 1 39 1 43 1 46 1 49 1 50	1h. 29m 1 28 1 27 1 27 1 26 1 26	8° 39' 8 35 8 31 8 27 8 24 8 21



Please to remember the Fifth of November Gunpowder teason and plot; I know no reason why sunpowder treasen Should ever be forget. Old Ditty.

Should ever be force.

November brings with it Guy Fawkes Day, which, twenty years ago, in the country, was a common holiday; and not to burn Guy at night, and spend all the money got during the day in fireworks, would in our boyish days have been considered treason by the worthy parson, churchwardens, overseers, and every other "good man and true." We had some very misty notions about Guy Fawkes and King William—not that we obtained our knowledge from history so much as the Common Prayer Book, which, although it taught us to pray for our enemics, said not a word against the burning of Guy Fawkes; indeed, this we considered the most important proof of our paying "due observance" to the day. Our notions of the aforcsaid Guy were also very peculiar. We believed him to have been a very uglysort of a fellow, with a long red nose, who levied blackmail, in his day, by being carried about from house to house, with a lanthorn in one hand, a match in the other, and we knew not how many pounds of gunpowder in his pockets; and that people gave him money to prevent him from blowing up their houses; further, that he at last grew so bold as to beg of Parliament, which was, in itsell, a not very uncommon act; that they either refused to relieve him on the spot, or to grant him a pension; and that ho threatened to serve King, Lords, and Commons, as he had threatened to serve all other liege

subjects, and at last became so overbearing that all London rose up against him as one man; that he was banished the kingdom, and then burnt in effigy for having been found prowling about the vaults, into which no end of smill casks had been smuggled; that some said they contained gnupowder; others that Guy knew as well as the members themselves what the concealed casks contained; and that a nose like his would never have been allured into such places had therebeen nothing better than gnupowder. Then the plot grew too thick for our boyish comprehension; there was something about hush-money, trap-doors, drinking-cups, hononrable members slipping one after another into the aforesaid vaults, and not able to get out again without assistance, and, finally, that they were hlocked up; and in the course of time Bellmy opened, who still carries on a snug business. That the whole affair obtained the name of the Gunpowder Plot, through the train that was laid to get at the barrels and quench tho spark which the dry orations of King James created in every threat. As to the story about burning, torturing, and so on, of course we knew better than to believe a word about the matter—well aware that in a Christian conntry, like Eugland, such brutal scenes could never take place. Having thus settled these "Historic Doubis" to our satisfaction, of course subjects, and at last became so overbearing that all London rose up against him

We knew no reason why gunpow er trosson Should ever he forgot:

so at once commonced making a Guy, or sometimes stole one ready-made, which so at once commonded making a Guy, or sometimes stole one ready made, which saved much trouble, for it was useless for the weaker party to offer resistance at a so son when bon-fires, crackers, squibs, and powder in every form, were blazing and banging all over the country. It was a day dedicated to Invasion, and not a so ison when bon-fires, crackers, squites, and powder in every torm, was a mand banging all over the country. It was a day dedicated to Invasion, and not a scarecrow could be found in the fields or gardens for miles around. Nor was this all: we established a committee of enquiry, days before this great annual fring, and they went round to see that all gates, fences, railings, posts, &c., were firmly secured. according to statute passed. They were entitled to bring away all that were loose, decayed, or broken, or could by any lawful means be torn off, up, or down. Theso were offered up at the shrine of Guy on the evening of the Fifth of November, and for this purpose were hoarded up in such places as the secret committee in their wisdom chose to appoint to be used for the "due observance of the day."

of the Fiftb of November, and for this purpose were hoarded up in such places as the secret committee in their wisdom chose to appoint to be used for the "due observance of the day."

The bestreceipt we knew for making a Guy was, first to steal a coat—if nearly new, so much the better, it gave Guy a more respectable look. The village tailor was generally in the secret, and he so cut, altered, and trimmed it, after having cabbaged a waistocat out of the skirts, that we could safely defy the original owner to swear to it again, even when it had undergone the mostrigid examination. A pair of good leather breeches also formed a capital accompaniment to the above, and these we generally obtained by "hook or crook." Top-boots were then pr try plentiful; and as the old shoemaker had generally five or six pairs on hand to repair, all round-toed, and as like as two cherries, it was difficult to discover whose were lost. Hats were plentiful as blackberries, as every high wind blew off one or two at the church corner, and the best was invariably selected. We just knew enough of the laws to understand that horses, waggons, &c., were in cases of emergency to be pressed into service in the King's name; and, under the same plea of loyal necessity, we stuck at nothing for the honour of our country, and the celebration of the Fifth of November. Pity 'tis, 'tis true, but sometimes a real living Guy has been detected in the fact of wearing the lost boots, numentionables, &c., and been compelled to throw down his matches and lanthorn and run for it, and that our friends have been mulct to the full value aforesaid. But such mishaps rarely befel us.

Oh! what blazing and firing was thero in those good old times: men drank and swore beantifully in those days, to prove their dislike to Popery; and what if a rocket now and then alighted upon a corn-rick, and burnt up a few scores of quarters of wheat, was it not a proof that in our very zeal we neither respected persons nor property? Then what good we did for trade, breaking every wind

or Protestants !

It was one of those blessed days in which all loyal snbjects who had allowed their nails to grow to a goodly length were expected to scratcb, bite, shout, and blaze away at everything they came near. Alas! there are now "most biting laws" against the celebration of Guy Fawkes day. Into that very House which was all but blown up little more than two centuries ago, men of all sects and creeds are admitted; there is now no burning, no drawing, nor quartering in the name of religion; no traitors' heads grinning on London-bridge; no burning in the bars of Smithfield. Men seem to have lost that spirit of sweet savageness, and to bave laid aside the charms of former cruelty. Poor Guy is himself doomed to be numbered amongst the things that were; and the time will come when the remembrance of Gunpowder Treason, and the martyrdom of Charles I., will not be found in our "Forms" of Prayer, nor be allowed to mingle with that holier incense which is alone worthy of ascending to Heaven. We shall then leave "the dead past to bury its dead," and destroy every trace of those old barriers that have so long separated man from his brother man. It was one of those blessed days in which all loyal subjects who had allowed

that have so long separated man from his brother man.

As painters of the past, we have glanced at an old custom which is now fast sinking into desuetude, and which, excepting as an amusement for children, will ere long die away—a consummation devoutly to be wished.

But we must now turn to where

Autumn rends her yellow hair,
And weeps the more that tears were vain to save;
The sorrowful rohin sings her requien,
And strews her hearse with all bis favourite leaves;
The sprightly lark somewhere in silence grieves
And will not chant his wonted matin hymn;
And Yature, her proud mother, mourns her child
With that unutter'd grief which is not soon beguiled —WEBBE.

Although the close of autumn is somehow associated with the images of decay and death, there are fitful and cheerful glimmerings thrown around, "like hope upon a death-bed;" and we feel that this natural destruction of the remains of

and death, there are fifful and cheerful glimmerings thrown around, "like hope upon a death-bed;" and we feel that this natural destruction of the remains of the beautiful summer is necessary for the production of another and a fairer spring. There is also something pleasant in the appearance of the well-filled rick-yards and barns; and we seem armed against the coming winter when we look upon the stores that have been gathered from field, orchard, and garden, and garnered against the time when "the wind and rain beat dark December." Nor do we seem to care so much to see the leaves rotting and the long grass withering, and the low leaden-coloured sky ever raining, in these busy autumnal days, as we should in the almost nightless season of summer; the lengthened darkness brings with it the very necessity that confines us witbin doors.

There is something very beantiful about the great bigh heath-covered hills in autumn, that come dipping down with crimson-clad feet into the open valleys. Scott used to say that he could never live unless he set bis foot upon the heath once a year; and we know few spots that retain their dry elasticity so long as those on which the leath-bell waves; for, when all besides is saturated with moisture and decay, these are comparatively dry. Some such spot we ore knew that ran high above the surrounding woods; for, saving one narrow field-like entrance, woods encircled it every way. It had never been cultivated within the memory of man, nor probably ever had been. When the ling and beather had withered on the more open hills, bere it remained as fresh as if it had but just bloomed; and even when December began to draw the curtain upon the close of the year, we have still found it as fresh as it seemed to have been in other places a month or two before.

The following humorous description of autumn was written between two and three hundred years ago, but by whom wo know not, though we think it is attributed to Decker:—"Autumn's the barber of the year, that shears busses, hedges, and tre

his old custom, when the sun sets, like Justice, with a pair of scales in bis band, weighing no more hours to the day than he does to the night, as he did before in his vernal progress, when he rode on a ram. But this bald-pated Autumn will be seen walking up and down groves, meadows, fields, parks, and pastures, blasting of fruits, and beating leaves from their trees. When common highways shall be strown with boughs in mockery of Summer and in triumph of her death." The resemblance the seasons bear to life, death, and resurrection, have not escaped the eyes of our old poets. They ever compared spring to youth; the

blowing and blossoming of the buds and flowers to the promises of future manhood, the fruits which the full Summer would bring forth and ripen. Autumn, which brought perfection, was also the forerunner of dissolution; the same which brought perfection, was also the forerunner of dissolution; the same which caused the rose to shed its beauty as soon as it was attained, for such was ever Nature's course. Winter was that sleep in the grave which awoke to life in another spring, whose flowers were eternal, and where there was neither death nor change again. Even so far back as the days of Homer, we find the decay of antumn suggesting these very images, nor have we in any way been able to improve upen them. Shelley seems to have felt this when he said:—

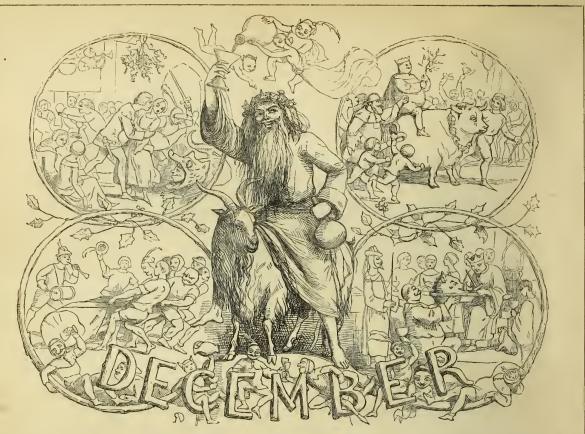
nupcn them. Shelley seems to have felt this when Oh! wild West Wind! thou hreath of Autumn's being—Thou, from whose unseen presence the leaves dead Are driven, like ghosts from an enchanter fleeing, Yellow, and hiack, and pale, and hortic red—Yellow, and hiack, and pale, and hortic red—West better the stand whitty bed the wind seeds, where they lie cold and low, Each like a corpse within its grave, until Thine azure sister of the spring shall blow Her clarion o'er the dreaming carth, and fill (Driving sweet huds, like flocks, to feed in air) With living hues and odours plain and hill! Make me thy lyre even as the forest is. What if my leaves are falling like its own: The tunnult of the mighty harmonies Will take from hoth a deep autumnal love, Sweet though in sadness! Be thou spirit-fierce. My spirit, be thou me, impetuous one! Invite my dead thoughts over the universe, Like witherd leaves, to quicken a new hirth.

How wild and solemn must have been the autumns in our primitive old English forests, three or four thousand years ago! when there was no human voice to cheer the solitude; but, according to the earliest records we possess, nothing but bears, wolves, and the oxen with the high prominence. The badger is another of that ancient family, which has outlived the mammoth and the mastedon; for we find his fossil remains side by side with these huge and extinct monsters. He is the only representative of our cave bear, and secms not to have based a jot of bruin's valour. It appears that in the present day the badgers migrate from one part to another in large companies, sometimes numbering from ten to seventeen; that they move along in the night, rank and file, in seemly and marching order, placing their young ones in the centre. In one or two instances, when they have been confronted, both mau and dog were compelled to beat a retreat

retreat.

The favourite haunt of the badger is the gloomy centre of a wood, or that part where the thicket is impassable; possessing long powerful claws, he there digs for bimself a deepden, forming a somewhat winding and intricate entrance, into which he works his long hardy body, not caring a straw for rubbing bis coarse skin against the outer brambles or rugged sides of his subterraneau dwelling, so long as he has but plenty of room to turn himself when he reaches his inner chamber. Here he couches all day long, and never ventures out to feed until late in the evening, or late in the night. Though dull, heavy, and lazy, it is, upon the whole, a harmless brute, doing no injury to any one, but feeding the property of the pr his inner chamber. Here the contents art day long, and a leaver feed until late in the evening, or late in the night. Though dull, heavy, and lazy, it is, upon the whole, a harmless brute, doing no injury to any one, but feeding upon roots, pig-nuts, acorns, bech-mast, and occasionally a long-tailed mouse or two, or even a few frogs or insects when nothing better may be had. Some naturalists assert that he is a great destroyer of wasps'-nests, and feeds upon the larvee. He is, beyond donbt, the strongest jawed animal of his size in Britain, and, even when baited by half-a-dozen dogs, if be once chances to get fairly held, wee be to the assailant. When taken young he is said to be easily tamed, and to become as attached and affectionato as a dog; ready, also, to follow his master anywhere. Glad we are that the cruel custom of badger-baiting is now abandoued. Almost every inn-yard in the country had, a few years ago, its badger-tub, or box, in which dog and badger were mutually tortured, the dog which seized the badger the oftenest, and still retained bis hold each time he went in until be was drawn forth by the tail, when the badger was made to release its hold, and the dog again sent in, according to its "bottom," was the winner. The method used for capturing the badger is by placing an open sack, with a running noose, in the earth where he harbours. This is done while is any deading. When all is prevaged, a loud hooting and whistling is made. sack, with a running noose, in the earth where he harbours. This is done while he is out feeding. When all is prepared, a loud hooting and whistling is made, and half a dozen dogs are also turned loose. The badger, alarmed, hnrries of home, rushes into the sack that closes bebind him, and is regularly "sacked."





SUN. MOON.														
м	w	ANNIVERSARIES, OC-			Same			DURATION	OF MOONLIGHT.	HIGH WATER	P. P. P.			
D	D	CURRENCES, FES.	RISES. Before 12 o'clock.			Afternoon Morning.				Before Sunrise.	After Sunset.	AT LONDON BRIDGE	Day the V	
"	-	TIVALS, &c.		o'clock.	abo dari		Afternoon	Morning.	Me Book	rning.	O'Clock.	After Sunset. O'Clock. 6h. 8h. 10h	Morning. Afternoon	⁻₽
	-		II. M	M. 8.		и. м.	и. м.		Deg. H.	M.	2h. 4h. 6h.	6h. 8h. 10h	н. м. н. м.	-
1	S	Fomalhaut souths at 6h. 7m. P.M.	7 40	6 10 41		3 52	5 47	0 45	574 8	43		a17	2 25 2 45	335
2	S	1st S. in Advt.	7 47	10 18	$16\frac{1}{2}$	3 52	6 50	1 47 5	$56\frac{1}{2} 9$	47		18	3 10 3 30	336
3		Alpha Andromedæ souths at 7h. 9m. p. M.	7 48	9 54	$16\frac{1}{2}$	3 51	7 58	2 49 8	$54\frac{1}{5} 10$	42		19	3 55 4 20	337
4	Tu	Alpha Pegasi souths 7h 10m	7 49	9 30	161	3 51	9 15	3 49 3	$51rac{7}{4}11$	27		20	4 45 5 10	338
5	W	Polaris souths 8h 6m P.M	7 5	9 5	161	3 51	10 30	4 45 4	171 Afte	rnoon			5 35 6 5	339
6	TH	Nicholas	7 52	8 40	16	3 51	11 43	5 37 4	$43\frac{1}{4} 0$	30		TO TO	6 30 7 0	340
7	F	Alpha Arietis souths 8h 5?m	7 53	8 14	16	3 50	Morning.	6 27 3	383 0			23 // // //	7 30 8 0	341
8	S	Con. of B.V. Mary	7 5	7 47	153	3 50	0 54	7 143	34 1	23			8 40 9 15	342
9	1.0	2DS. in ADVENT	7 56		- 4	3 50	2 2	7 593	30^{4} 1	45		25	9 50 10 25	343
10		Grouse sh. ends	7 52	6 53	4	3 49	3 10	8 45 2	$26\frac{1}{1}$ 2	9		26	11 0 11 30	344
11	Tu	Terrible slaughter	12	6 26	2	3 49	4 16	9 30 2	$23\frac{1}{4}$ 2	35		27 ////////////////////////////////////	At Noon. No Tide	345
12	W	of British troops in Aff- ghanistan, 17,000 lives	7 59	_	- 2	3 49	5 20	10 15 2	20 = 3	4		28 7 7 7	0 24 0 47	346
13		Lucy [lost, 1842]		5 29	- 4	3 49	6 22	11 21	$9^{4} 3$	37			1 8 1 30	347
14		Aldeharan sonths 10h. 53m.	8 (0.5 0		3 49	7 21	11 48	_ 4	14				348
15		F.M. [Cambridge Term ends,	8 1	4 31		3 49	8 15	Afternoon]	_ 7	58				349
16	1	3D S. in ADVENT	8 2	4 2		3 49	9 2		81 5	47				350
17		Oxford T. ends	8 3	1	4	3 49	9 45		$9\frac{1}{4}$ 6	42		3 7 7 7 7 7		351
18		Capella souths 11h 15m P.M.	8 4		1-041	3 50	10 11	2 58 2	4	40		4		352
19		Ember Week	8 5			3 50	10 53		31 8	42		55		353
20	т.	Regulus souths 11h. 9m. P.M.	8 5			3 51	11 21	4 30 9	$6\frac{3}{4}$ 9	47		6		354
$\frac{20}{21}$	F	St. Thomas. Win-	8 6		1	3 51	11 47	5 153	10310	52		7		355
22	S	ter commences	8 6		1 1	3 51	Afternoon	6 03	5 11	59				356
22		4TH S in ADVENT		1	(-)	3 52	0 34	6 473	91 Mor	ning.		9		357
20		Christmas Eve	8 7			3 52	1 0	7 36 4	4 1	12		10		358
25		CHRISTMAS DAY	8 7	After 12		3 53	1 27		81 2	24		11		359
26		St. Stephen	8 7	o'clock		3 53	1 59	9 23 5	$2\frac{1}{1}$ 3	40		12	1.7 20120 201	360
27			8 8		- 4	3 54	$\begin{array}{c} 1 & 39 \\ 2 & 38 \end{array}$		5 4	59	W. W.	13	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	361
2/		Innocents	8 8	1 56	151	3 55	3 26	$\frac{10}{11} \frac{22}{24} \frac{5}{5}$	49	15		14		362
$\frac{20}{29}$	1		8 9	$\begin{vmatrix} 1 & 50 \\ 2 & 25 \end{vmatrix}$	151	3 56				25				363
					151		4 25		4	29		16		364
30	السما		8 9	2 54 3 23	194 3	3 57	5 33		$\frac{5\frac{3}{4}}{3} = \frac{8}{9}$	- 11		17 ///		365
31	WI,	Silvester	8 9	3 23	$15\frac{1}{2} 3$	3 58	6 48	1 315	$3\frac{1}{4} 9$	2111			3 0 3 25	500
		40												

DECEMBER.

DECEMBER.

THE SUN is in the sign Sagittarius till the 21st, at 9h. 42m., at which time he enters the sign Capricornus (the Goat), and Winter commences. On the 1st he is 93,628,000 miles from the Earth.

He rises, on the 1st, at 19\frac{1}{2}\text{S}. of S.E. hy E.; on the 11th, at 30\frac{1}{2}\text{; on the 21st, at 49\text{; and on the 31st, at 30\frac{1}{2}\text{ S}. of the same point of the horizon. He sets on the same days respectively at 10\frac{1}{2}\text{, at 40\text{, and at 30\frac{1}{2}\text{ S}. of the S.W. by W. points of the horizon. His time of southing, in common clock time, and his height in degrees at the same time, are given for every day on the opposite page.

The Moon is in the constellation Gemini on the 1st and 2nd; in Cancer, on the 3rd and 4th; in Leo, on the 5th and 6th; in Virgo, from the 7th to the 10th; in Libra, on the 11th and 12th; in Ophiuchus, on the 13th and 14th; in Sagittarius, on the 15th, 16th, and 17th; in Capricornus, on the 18th; in Aquarius, on the 19th, 20th, and 21st; in Pisces and Cetus alternately, till the 25th; in Tanrus, on the 26th, 27th, and 28th; in Gemini, on the 29th and 30th; and in Tanrus, on the 26th, 27th, and 28th; in Gemini, on the 29th and 30th; and in Cancer, on the 31st.

Cancer, on the 31st.

She rises during the night till the 14th; during the day, from the 15th to the 28th; and after the Sun sets, on the 29th, 30th, and 31st. She sets during the day till the 16th; during the night, from the 17th to the 29th; and shortly after snnrise, on the 30th and 31st.

She is on the Equator on the 8th and on the 23rd. Her time of southing, in common clock time, and her height in degrees at the same time, are given for every day on the opposite page.

She is near Mars on the 1st; Jupiter, on the 7th; Venus, on the 12th; Mercury, on the 14th; Saturn, on the 22nd; Uranus, on the 24th; and Mars, on the 28th.

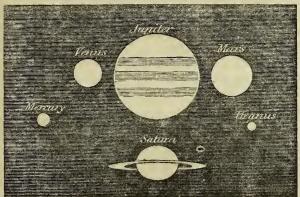
She is near on the 14th, and full on the 29th; but without an Eclipse at both

She is new on the 14th, and full on the 29th; hut without an Eclipse at hoth

MERCURY is in the constellation Lihra on the 1st; he is moving on the houndaries of those of Scorpio and Ophiuchus, from the 2nd to the 14th; and in that of Sagittarius from the 15th to the end of the year.

He is a morning star at the heginning, and an evening star towards the end of the month. He rises on the 1st at 56m., and on the 15th at 1m., before the Sun rises. He sets on the 16th at 2m. the month. He sets on the 16th at 2m., and on the 15th at 1m., defore the Sun rises. He sets on the 16th at 2m., and on the 31st at 40m., after the Sun sets. He is generally unfavourably situated during the month for observation. He rises on the 4th at the S.E. by E.; and he sets on the last day at 5° § S. of S.W. by W., points of the horizon. He is moving eastward among the stars throughout the month; and is near the Moon on the 14th, and is in superior conjunction with the Sun on the 19th.

RELATIVE TELESCOPIC APPEARANCES OF THE PLANETS, IN DECEMBER, 1849.



Scale, 40 seconds of arc to ooe inch

VENUS is in the constellation Libra till the 10th; in that of Scorpio, from the 11th to the 14th; and in that of Ophiuchus, from the 15th.

She is a morning star throughout the month; and rises at 5h, 37m. A.M., on the 1st; and at 7h 3m. A.M., on the 1st; at dat 7h 3m. A.M. on the 31st; at 2°\$ S. of E.S.E, on the 1st; at the S.E. by E., on the 18th; and at 3°\$ S. of S.E. by E., on the 31st. She is moving eastward among the stars throughout the month; and is near the Moon on the 12th. Her telescopic appearance towards the end of the month is small, and almost circular, as is shewn in the preceding cut.

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PERIORE

Mans is in the constellation Gemini till the 10th; and in that of Taurus, from

the 11th to the end of the month.

He is visible throughout the night; and rises, on the 1st, at 4h. 59m. P.M.: and on the last day, at 2h. Im. P.M.; at 70½ N. of N.E. by N. on the last day at 2h. Im. P.M.; at 70½ N. of N.E. by N. on the last day.

His times of southing are given helow; and his altitude above the horizon when he souths, on the lat, is 64½ and on the last day is 65°. He sets towards the end of the month as the Sun rises. He is moving westward among the stars (as shewn in the annexed diagram); and is near the Moon on the 1st and 28th. He is in opposition to the Sun on the 18th.

PATH OF MARS, DURING THE MONTHS OF OCTOBER, NOVEMBER, AND DECEMBER, 1849.



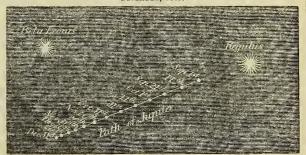
Scale, 12 degrees to one inch.

JUPITER is in the constellation Virgo throughout the month.

JUPITER is in the constellation Virgo throughout the month.

He is a morning star; rises at the 24m. A.m., on the 1st, at 4° S. of E. hy N.; and on the last day, at 10h. 34m. P.M., at 5° S. of E. by N. Souths at 43° ½ on the 1st, decreasing to 42° ½ on the last day; and sets at about noon. He is moving eastward among the stars throughout the month, but is almost stationary among them towards the end of the month, as is shewn in the annexed diagram, shewing his path in the heavens during the months of October, November, and December; and it will be seen that his motion is directly from Regulus to a point situated 12° S. of Beta Leonis. He is near the Moon on the 7th.

PATH OF JUPITER, IN THE MONTHS OF SEPTEMBER, OCTOBER, NOVEMBER, AND DECEMBER, 1849.



Scale, 12 degrees to ope inch.

The Immersions of the 1st take place at the distance JUPITER'S SATELLITES. of one-half, and those of the 2nd at that of one diameter from the Planet, to the right as seen through a non-inverting telescope, and to the left as seen through an inverting telescope.

SATURN is in the constellation Cetus throughout the month.

He is an evening star; souths at an altitude of 40° nearly on every day; and sets at a point a little S. of W., at 1h. 20m. A.M., on the 1st; at 0h. 27m. P.M., on the 15th; and at 11th. 27m. P.M., on the last day. He is nearly stationary among the stars during the month, and is near the Moon on the 22nd.

URANUS souths on the 15th, at 7th. 47m. P.M., at an altitude of 47° nearly on every day. He sets, on the 1st, at 3h. 33m. A.M.; and on the last day, at 1h. 32m.

A.M. He is nearly stationary among the stars, and is near the Moon on the 31st.

TIMES OF THE PLANETS SOUTHING, OF PASSING THE MERIDIAN.					NG, OR		JUP	TER'S SA	TELLITE	ES.	l l	OCCULTATIONS OF STARS BY THE MOON.						
Dayao.	Mercury.	Venus.	Mars.	Jupiter.	Saturn.		lst Sat		2рс	l Sat.	Nar	nes of the S	tars. W	Times of disappearance and re-appearance of the Stars.		earance or	t the dark bright limb of the Moon.	
1 6 11 16 21 26 31	H. M. 11 8 11 21 11 34 11 49 Aftern. 0 19 0 35	H. M. 10 20 10 25 10 31 10 38 10 44 10 51 10 59	H. M. 1 33 1 5 0 38 0 10 Aftern. 11 8 10 41	H. M. 6 48 6 31 6 13 5 55 5 36 5 17 4 58	H. M. 7 26 7 7 7 6 47 6 28 6 8 5 49 5 31		1 58 A 3 51 A 5 44 A	. M. . M. . M.	9 1 16 3	M, 9 A.M. 43 A.M. 17 A.M.	33 C	ar in Ariet	4 6 dis 4	5 1 5 1 23 1 23 1 25 25 30	H. M. 0 40 P. M. 1 34 P. M. 0 51 P. M. 1 23 P. M. 4 4 P. M. 4 46 P. M. 5 58 P. M. 6 48 P. M.	I. I. I. I. I.	Bright Dark Dark Bright Dark Bright Bright Bright Dark	
TIN	TES OF CH	IANGES	OF THE	MOON.	. te			RIGH	T ASCEN	ISIONS A	ND DEC	LINATIO	NS OF T	HE PLA	NETS.			
1					s of t	MERCURY. VEN				ENUS. MARS		. JUPITER.		SATURN.		URANUS.		
gee	And when she is at her greatest distance (Apo- gee), or at her least distance (Perigee), from the Earth in each Lunation.					Right cension	Declina- tion South.	Right Ascension	Declina- tion South.	Right Ascension	Declioa- tion North.	Right Ascension	Declina- tion North.	Right Ascension	Declina- tion South.	Right Ascension	Declina- tion North.	
Fir Fur Per	T QUARTER W MOON ST QUARTER L MOON	e	6D. 6H. 5 14 3 3 22 7 4 29 2 1 4	8 г.м.	1 15 6 16 11 16 16 17 21 18		19° 40′ 21 44 23 21 24 29 25 5 25 6	15h. 1m 15 26 15 52 16 18 16 44	15° 43′ 17 30 19 6 20 29 21 37	6h.11m 6 4 5 55 5 47 5 38 5 30	25° 49′ 26 4 26 17 26 26 26 30 26 32	11h, 29m 11 30 11 32 11 34 11 35	4° 38′ 4° 27 4° 17 4° 9 4° 3	0h. 8m 0 8 0 8 0 9 0 9	1° 50′ 1 49 1 47 1 44 1 39	1h. 25m 1 25 1 24 1 24 1 24	8° 18′ 8 15 8 13 8 12 8 11	

31 19 14 24 29 17 38 23 5 5 22 26 30 11 36 3 57 0 11 1 28

DECEMBER.-CHRISTMAS WAITS.



Good Christians, rise; this is the morn
When Christ, the Saviour, He was born;
All in a stable so lowlee,
At Bethlehem, in Galliee.
Rejoice I our Saviour He was born
On Christmas-day in the morning —Old Christmas Carol.

On Christmas-day in Christmas of the village waits, not your no sy musicians, whose clamon arouses a whole neighbourhood, but those who hring no other instruments excepting their voices—who go from hamlet to hamlet all night long, chauting such carols as our pious forcathers loved to listen to in those good old days when Christmas was not only a holiday, but a holy time. Let us uplift the corner of the white hlind gently. Although they hope that all are listening, they would but feel uneasy to know that they were overlooked. We shall be very glad to see them on hoxing-day, when they will come round and simply announce themselves as the waits; then we can reward them for the pleasure they have afforded us. A few old-fashioned doors will be opened, where they will he cheered with elder wine, spiced ale, and plum cake; they know the houses. There are those who make a point of sitting up to receive them; cold although the night may be, they will not lack bodily comfort. How sweetly the moonlight sleeps upon the untrodden snow; it kept falling until twelve o'clock; and then the queen of the stars came out adorned with more than her usual brilliancy. It is just such a Christmas morning as a lover of old customs would crawe for—cold, frosty, and bright. How the snow will "crunch" hencath the feet

at daylight! But they are gone; you can just hear their voices at intervals, sounding faintly over the snow, when the red cook that crows from the far-off faim is silent, for they are now singiog at the lonely grange beside the wood. The old farmer who resides there would never fancy that it was Christmas nules he heard the waits. Rumour, who is a slanderer, does say that when they lave left his old-fashioned parlour they never again sing in tune—that bass is heard in place of tenor, and treble gets over his part before the others have well begun—and that, when complaints are made the next morning, the only answer is, "Christmas comes hut once a year."

Then comes the church service in the morning; nohedy either thinks or cares about the sermon on that day—all feel good enough without it. No! their thoughts are with the friends they hope to meet; they need no other sermon than the snow which lies on the graves of those who are still dear to them in memory—the dead, who, perhaps, only the year before, were gnesis at the Christmas hoard—those whom

The breezy call of incense-breathing morn.

The swallow twittering from the straw-built shed,

The cock's shri'l clarion, or the echoing horn, No more shall rouse them from their lowly bed.

For them no more the blazing hearth shall burn, Or busy housewife ply her evening care; No children run to lisp their sire's return, Or climb his knees the envied kiss to share.

In vain are the beloved portraits decorated with bolly and ivy: tbe same calm faces look down upon the Christmas festival, but the eyes no longer brighten neither do the lips move, nor will the merry langh that rung like music over the scene ever more be heard.

High up the vapours fold and swim, Above him floats the twilight dim, The place he knew forgetteth him.—TENNYSON.

Above him hoats the twilght dim.

They mistake Christmas who state that it is a merry day; on the contrary, a Christmas dinner is more often a solemn assemblage of those who live, and whose thoughts are occupied with those who have departed. In England, with but few exceptions, it seldom consists of more than members of the family. If a friend drops in it is generally one who has no other friends to meet; or if the has, they lie too far and wide away for him to visit them. It is a time when grandchildren and grandfathers and grandmothers meet together; when old times and old scenes are recalled; when the hidden household gods are brought forth; and the young bride, often for the first time, meets the family of which she is now a member; when old crusty men, who after much persuasion have at last agreed to attend, shovel off the cold crust from their hearts, as the good old port comforts them, go home, and alter their will, and sleep more comfortably after it than they have ever done for years before; when hands which have never beeu clasped for many a long day lie enfolded within each other, and marvel however they came to be separated. No! Christmas is not a merry season; it makes a man think of how few such days be can remember, and how few more he can hope to see. He begins to tbink that a brief year of days spent so bapplly, dating from the time he first slept an infant in the cradle, and but kept up once a week, would tell him that he had lived beyond half a century; and he feels no wish to number as many more, although he knows that

In the grave there is no company.

In the grave there is no company.

"From the first introduction of Christianity into these islands," says the Book of Christmas, "the period of the Nativity seems to have been kept as a season of festival, and its observance recognised as a matter of state. The Witenagemots of our Saxon ancestors were held under the solemn sanction and beneficent influence of the time; and the series of bigh festivities established by the Anglo-Saxon kings appear to have been continued with yearly increasing splendour and multiplied ceremonies under the monarchs of the Norman race. From the Court the spirit of revelry descended, by all its thousand arteries, throughout the universal frame of society, visiting its furthest extremities and most obscure recesses, and everywhere exhibiting its action, as by so many pulses, upon the traditions, and superstitions, and customs which were common to all or peculiar to each. The pomp and ceremonial of the Royal observance were imitated in the splendid establishments of the omer wealthy nobles, and far more faintly reflected from the diminished state of the petty baron. The revelries of the baronial castle found ecboes in the hall of the old manor-house, and these were again repeated in the tapestried chamber of the country magistrate, or from the sanded purlour of the village

the hall of the old manor-house, and these were again repeated in the tapestried chamber of the country magistrate, or from the sanded purlour of the village inn: merriment was everywhere a matter of public concernment, and the sprit which assembles men in families now congregated them by oistricts then."

Such, indeed, was the merry Christmas of the olden time. The whole wide country was then filled with rejoicing: in the bannered hall the long tables were spread; on the aucient armonr and the antlers of the wild deer, holly, and ivy, and mistletoe were placed; the huge yule log went roaring up the wide old-fashioned chimnies, and cold although it might be without, all was warm and comfortable within. The large wassail-bowl—a load of itself when full—was passed round, and each ore before he drank, attred up the rich spices with a sprig of rosemary, while the cooks (says an old writer) "looked as black and greasy as a Welsh porridge-pot." Roast goose and roast beef, minced pies, the famous boar's head, plum porridge, and plum pudding, together with no end of lamb's wool," seemed to have formed the staple luxuries of an old Christmas dinner. But even more than two hundred years ago the cry was raised, "Is old, good old Christmas gone?—nothing but the hair of his good, grave, old head and beard left."

Were I to paint a December day, such as I wandered out in last year (1847),

head and beard lett!"
Were I to paint a December day, such as I wandered out in last year (1847), It would read more like a description of spring than winter. The sky was intensely blne, and the sun shone with a summer brightness. The wide Downs which lie to the lett of Sanderstead seemed to bask in the sunlight of May. On either hand, between the woods, the holly and ivy hung aloft in the richest green, while hips and haws glittered in the hedgerows in thousands, like beads of the while hips and haws glictered in the hedgerows in thousands, like beads of the brightest coral. The woodlark (which, it is well known, sings nearly the whole of the year, and is only silent in June and July), and therobin were singing as cheerfully as if it were a fine day in February; and, unless my ear deceived me, I caught the notes of the thrnsh. The day was, indeed, so beautiful that I could not resist the temptation of venturing into the wood, for there was a dryness about the fallen leaves such as I had but rarely seen in winter. Wandering onward, I arrived at a little dell. Oue side was in shade; on the other the golden sanshine slept. Strange, there was also a rich yellow light on the shady side of the dell. On a nearer approach, I saw hundreds of primrose; in full flower. Pale and beautiful, there they stood, throwing a sweet fragrance all around; the new green leaves and the old ones, brown and decayed, all adhering to the aime root. Snch a discovery would have been a little fortune to a London flower-seller; and had they been dug up by the roots, and offered for aale in Cheapside (which is not more than twelve miles from Sanderstead), no doubt the whole dell-tull might have been disposed of in one day, for it was just upon the whole dell-full might have been disposed of in one day, for it was just upon the verge of Christmas

At no season of the year is the hare in better condition than now. He has got over his full antinum feeding, and there is a firmness about the flesh which will be lost after January. Hare hunting takes the precedence of the fox chase. It was followed by the ancients, and we have a description of it by Xenophon, long before the Christian era. By many it is also considered to afford more true inuting than the fox chaso. The hare is no sooner found than it starts off and makes a circle; and as the scent is very weak until the hare is warmed, the and makes a circle; and as the scent is very weak until the hare is warmed, the harriers are often at fault, and driven over, and sometimes run backward instead of forward, hunting, as it is termed, "heel ways." The hare should never be pressed upon too clasely when first found, nor should the hounds be followed too near, as they sometimes turn back to regain the lost scent. Besides, by remaining behind, the motions of the liare can be better observed at a reasonable distance, and all her foils and doubles detected. It is wonderful what doubles the hare will sometimes make, when the scent has become warm: instances are on record of her feats on a dry road, when, having run all sorts of intricate ways, she will at last make a clear spring several feet from the spot, which occasions

many a fault; and while the harriers are beating widely about, or are far alread, many a fault; and while the harriers are beating widely about, or are far alread, she will lie motic nices in the very spot where she at one spring threw herself until the hounds have passed, when she will return again to her old starting point. When the hare begins to make more contracted circles, it is a sure proof that the hunt is pretty well over, for it is sure to come soou within the "spread of the pack," and it will not then be long before ber death-cry is heard. Although the hare sleeps, the eyes are never closed: it is the same with fishes—they also sleep with the eyea open.

The following description of whiter walters white about these harded exercisions.

The following description of winter, written about three hundred years ago, will be new to thousands of our readers; it was written by a good old Scotch bishop, named Gavin Douglas, and first rendered familiar to English readers by the poet Warron, to whom we are indebted for the following beautiful modern version:—"The fern withcred on the miry fallows; the brown moors assumed a barren mossy hue; banks, sides of hills, and bottoms, grew white and bare; the cattle looked boary from the dank weather; the wind made the red reed waver on barren mossy hue; banks, sides of hills, and bottoms, grew white and bare; the cattle looked boary from the dank weather; the wind made the red reed waver on the dyke. From the crags and the foreheads of the yellow rock hung greaticicles, in length like a apear. The soil was dusky and grey, bereft of flowers, herbs, and grass; in every holt and forest the woods were stripped of their array. Boreas blew bis bigle-horn so loud that the solitary deer withdrew to the dales; the small birds flocked to the thick briars, shunning the tempestuons blast, and changing their lond notes to chirping; the citaracts roared, and every linden tree whistled and bowed to the sounding wind. The poor labourers, wet and weary, draggled in the fen, the sheep and shepherds linked under the hanging banks or wild broom. Warm from the chimney side, and refreshed with generous cheer, I stole to my bed, and lay down to sleep, when I saw the moon shed through the window her twinkling glances and wintry light; I heard the horned bird, the night-owl, shrieking horribly with crooked bill from her cavern; I heard the wild geese, with screaming cries, fly over the city through the silent night. I was now inlied to sleep, till the cock, clapping his wings, crowed tbrice, and the day peeped. I waked and saw the moon disappear, and heard the jackdaws cackle on the roof of the house. The cranes, prognosticating tempests, in a firm phalanx pierced the air, with voices sounding like a trumpet. The kite, perched in an old tree fast by my chamber, cried lamentably, a sign of the dawning day. I rose, and half opening my window, perceived the morning, livid, wan, and hoary; the air overwhelmed with vapour and cloud; the ground, stiff, grey, and rough; the branches rustling; the sides of the hills looking black and hard with the driving blasts; the dew-drops congealed on the stubble and rind of trees; the sharp hailstones, deadly cold, and hopping on the thatch." We know no description of winter so beautiful as the above; nearly every word an index ever ap

is a picture, every epithet is well chosen, and the whole as time a piece of word-painting as ever appeared in descriptive poetry.

We have again arrived at the close of another year, and in our journey through It have glanced at many of the old manners and customs which are fast fading away. The railroads, that have cut up the ancient highways of England, will soon uproof the few rude and rural customs that remain: the rapid interchange will revolutionies the babits of any simple wills area. will revolutionise the habits of our simple villagers, and they will become ashamed of following the ancient amusements, which for centuries have been the delight of their ancestors. As for ourselves, we seem to have lived on the verge of important changes. We have with our own eyes beheld the old May-games, delight of their ancestors. As no our own eyes beheld the old May-games, harvest homes, sheep-shearing feasts, wakes, statutes, Plough-Mondays, Palm-Sundays, and other aucient festivals and ceremonies, as they have no doubt existed for at least three or four centinries. We have also been dragged at the rate of two or three miles an hour in the creeping market-boat and heavy stage-waggon, the converted of two or three miles in the same anace of time in an express train. We two or three miles an hour in the creeping market-boat and heavy stage-waggon, and been waited fifty miles in the same apace of time in an express train. We can also just renember when a steam-boat was a marvel, and the banks of the river were lined for milea with wondering spectators. What changes another generation may witness, the future can alone unravel; if they keep pace with those that have marked the last memorable quarter of a century, scarcely a feature of the England which we have here depicted will remain. All the wonders of the "Arabian Nights" sink into insignificance beside our iron roads and electric telegraphs. As for Pnck's exploit in the "Midsummer Night's Dream," of "putting a girdle round about the earth in forty minutes," we shall ere long be able to send a message around the same circle in less time than the fairy boasted of.



(The Descriptions of the Twelve Months are from the pen of Thomas Miller.)

ASTRONOMICAL PHENOMENA.

(Continued from August.)

greater at some oppositions than at others. If the orbits of Mars and the Earth were perfect circles, the distance between the two Planets at every opposition would be the same; but, owing to the elliptic figure of the orbits, a considerable variation in this distance takes place. The least distance possible between the Earth and Mars is when the opposition of Mars occurs at the time when the Earth is farthest from the Sun, and Mars the nearest to the Sun. At the time of oppo-ition this year, on December 17, the Sun and the Earth are almost at their least distance from each other, and therefore the Planet will not appear in his greatest splendour. At the opposition in the year 1830, and that in 1845, the Planet approached nearer to the Earth than it will do again till the year 1860. At the opposition of Mars in 1830, the Planet's surface was watched by Dr. Maedlar, the Director of the Imperial Observatory, at Dorpat, Russia, and it was published in "Schumacher's Journal;" that all times there was seen at the South Pole, with great distinctness, a white, glittering, well-defined space, which has been called the "Snowy Zone." During the examination, several spots were seen. At the opposition in the year 1845, the surface of the Planet Mars was examined at the Royal Observatory, Greenwich; and the following is extracted from the Greenwich Astronomical Observations for the year 1845:—

"Angust 22nd, 11½h.—The night was very fine; and Mars being very nearly at the point of nearest approach to the Earth, the opportunity was taken to eucleavour to obtain a delineation of his surface. Drawings of his appearance were made by the Astronomer Royal and by Mr. Main; and the following rerbal description was added by the latter:—'About 10° to the apparent west of the apparent north point of the border of the Planet, there was a dazzling bright cap, which was contrasted very strongly by a dark zone immediately beneath it. A little below this shaded band a streak appeared, brighter than the parts above and below it, and of pret

Planet. The most remarkable dark spot on the disk was to the apparent left of the general dark mass which occupied a considerable portion of the upper surface; and there was also a dark spot on the right, quite clear of the general dark surface. It would seem as if an immense mountain range extended from one spot, across the dark surface, to the other spot; for the whole of the surface contiguous to the line joining the spots was very mnch mottled. On a minute examination, it appeared to me that the lower boundary of the darkened surface was in general form similar to a small circle of the sphere rather to the left of the centre of the Planet. It is probable that, with a more powerful telescope, some of these details would appear essentially different; for it was found very difficult to see the surface of the Planet with sufficient distinctness to record even the vague descriptiou which has been given.' Mr. Glaisher undertook to watch the Planet at intervals during the night, for the purpose of observing whether the dark spots shifted their position appreciably. The image was too unsteady and undefined during his watch to determine this point satisfactorily; but his impression was that the whole dark mass on the surface moved towards the left."

left."

"Augnst 29th, 11h.—The Planet was again watched by Mr. Main; and a sketch was made, differing in every particular (except in the appearance of the bright cap) from that made on August 22nd. The most remarkable appearance to be recorded verbally was, that between two dark horus or cusps, which terminated right and left the lower part of the darkened surface, the colour was of a singularly red tint, more nearly resembling rich red earth than anything else with which the observer could compare it. The dark part had a very faint blue tint."

The snowy zone of the South Pole of Mars has been generally noted by most observers at his opposition; and at several of these times dark spots have been seen unon the Planet, by observation of which the time of rotation of the

been seen upon the Planet, by observation of which the time of rotation of the Planet on its axis has been determined to be about 24h. 37m. 23s.

Mars will be most favourably situated for observations of this kind during the months of November and December of the present year. He will be finely located for examination, being high in the heavens, at midnight; he may he readily distinguished, by means of the diagrams given of his path in the heavens. by the redness of his colour, and hy his occupying a situation almost midway between the stars Castor and Pollux and the Pleïades, moving from the former towards the latter.

ON THE RECENTLY-DISCOVERED PLANETS.

ON THE RECENTILI-DISCOVERED PLANEIS.

TILL the discovery of Uranus, by Sir William Herschel, in the year 1781, six Planets only were known; viz. Merchry, Venus, the Earth, Mars, Jupiter, and Saturn. Kepler, from some analogy which he found to subsist among the distances of the Planets from the Sun, had suspected the existence of one situated between the orbits of Mars and Jupiter. The discovery of Uranus, occupying an orbit confirmatory to the analogy of distance before referred to, impressed Astronomers very firmly with the helief that a Planet would be found between Mars and Jupiter. The interval between the orbits of Mercury and Venus is about 31,000,000 of miles; between those of Venus and the Earth, 27,000,000; and between those of the Earth and Mars, 51,000,000.* But between the orbits of Mars and Jupiter the interval amounts to 349,000,000 of miles, thus interrupting the appareut order of distance, and which is resumed by the distances of the Planets then known heyoud Jupiter. Professor Bode at ahout this time published his celebrated law of the planetary distances. Planets then known heyoud Jupiter. Professor Bode at about this time published his celebrated law of the planetary distances. This law may be thus stated. If we set down the number 4 several times in a horizontal line, and to the second from the left hand add 3; to the hird add twice 6, or 12; to the next add twice 6, or 12; to the next add twice 12, or 24, and so on; the sums of these numbers will represent nearly the relative distances of the Planets from the Sun;

4	4 3	4	4 12	$\begin{smallmatrix} 4\\24\end{smallmatrix}$	4 48	4 96	4 192	4 384	&c. &c.
-	-	_				-			
Sums 4	7	10	16	28	52	100	196	388	800

If the distance of the third Planet (the Earth) from the Sun be called 10, then, in If the distance of the third Planet (the Earth) from the Sun be called 10, then, in this scheme, 4 will represent nearly the distance of Merchy; 7, that of Venus; 16, that of Mars; 28, that of the then unknown Planets, or, as it is now known, of the nine small Planets, &c. In the years 1784 and 1785, Baron de Zach, from these analogleal distances, calculated the orbit of the empirical Planet, and published the results of his calculations in the Berlin Almanack for 1789. He gave the distance of the assumed Planet from the Sun as nearly 2½ times that of the Earth from the Sun, and that its period of revolution was about four years and nine months. In the year 1800, Baron Zach formed an association of 24 observers, who divided the Zodiac into 24 zones, each observer to examine one

part, for the express purpose of searching out this concealed Planet. On Jan. 1, 1801, Piazzi, the Director of the Observatory at Palermo, noticed a small star in Taurus, which, on January 2, he found had retrograded no less than 4 minutes of arc in right ascension, and 3 minutes of arc in N. declination. This retrograde motion continued till January 12, when the movement changed to direct motion. This proved to be a Planet; and Piazzi gave it the name of Ceres, in honour of Sicily, Ceres being the tutelary goddess of that country; and her emblem, the sickle (?), was adopted as the symbol of this Planet.

On the 28th of March, 1802, Dr. Olbers, of Bremen, in Lower Saxony, found another Planet situated in Virgo, and which, like Ceres, was found to revolve in an orbit situated between Mars and Jupiter. Dr. Olbers gave this Planet the name of Pallas, and chose the lance \(\frac{1}{2} \), the attribute of Minerva, as its symbol. Thus two Planets were discovered, where one was suspected; and it was conjectured that they were fragments of a broken Planet, which had formerly circulated at the same distance from the Sun and had been shattered by some internal companies. distance from the Sun, and had been shattered by some internal convulsion. On this hypothesis, it was thought that there were other parts undiscovered, and the search was rigorously kept up.

On the 1st of September, 1804, M. Harding, at the Observatory at Lillenthal, near Bremen, observed a small star in Pisces, which proved to be a Planet, moving also at about the same distance as the two preceding Plancts from the Sun. The Planet was called Juno, and the starry sceptre of the Queen of Olympus was adopted as its symbol #.

On the 29th of March, 1807, Dr. Olbers discovered another Planet, then occupying a position in Virgo, whose orbit was found to be also situated between those of Mars and Jupiter. Gauss named this Planet Vesta, and chose for its symbol an altar surrounded with a censer holding the sacred fire.

Thus, within six years, four Planets were discovered. After the discovery of Vesta, the examination continued till 1816, but without detecting another planetary object.

On the 8th of December, 1845, M. Hencke, of Driessen, while examining a portion of the heavens in Taurus, saw a star occupying a position where, he felt assured, no star previonsly existed. This object proved to be a Planet, and was found to be one of the remarkable group situated hetween Mars and Jupiter. The place of this Planet at the time of its discovery, and its path in the heavens, was engraved in the ILLUSTRATED LONDON NEWS of February 7, 1846. It is called Astrea, and its symbol is \$\Phi\$.

Asirea, and its symbol is ϕ .

The discovery of the Planet Neptune ψ , September 23, 1846, at Berliu, was announced in the Almanack for 1847; and a chart, showing its place in the heavens at the time of discovery. Other particulars were given of this Planet in our Almanack of last year. To these we have to add, that Mr. Lassell, of Liverpool, who is in possession of an excellent telescope, on the 3rd of October, 1846, was impressed with the idea that the Planet had not the appearance of a round ball only, but that like Saturn it was surrounded by a ring. Since that time, Mr. Lassell has perfectly satisfied himself that this appearance does not arise from any defect in his telescope; and he has frequently seen the same appearance.

Professor Challis states that, on the 12th of January, 1847, he received a distinct impression that the Planet was surrounded by a ring; on the 14th, he saw the ring again. The ratio of the diameter of the ring to that of the Planet was about that of 3 to 2.

It seems certain that Neptune is attended by a satellite, and Mr. Lassell has

It seems certain that Neptune is attended by a satellite, and Mr. Lassell has

determined its period to be 5d. 20h. 51m.

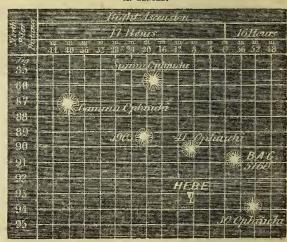
The orbit of Neptune, however, differs very materially from that assigned to it by Le Verrier and Adams; it is found to differ very little from a circle; and its distance from the Sun is less than that assigned to it by theory, and does not

confirm Bode's law of planetary distances.

From these circumstances an attempt has been made, originating in America, From these circumstances an attempt has been made, originating in America, with Professor Pierce of Cambridge, United States, and others, and subsequently by M. Babinet, to deprive Messrs. Leverrier and Adams of the great honour so justly due to these gentlemen, by asserting that the Planet Ne ptune is not the planet that their calculations had pointed out. The difference between the elements of this planet as indicated by theory—before any human eye had ever viewed it as a planet—and those deduced from observation, are not greater than might have heen expected. It must be regretted that any difference of opinion on this subject should have existed.

On July 1, 1847, M. Hencke discovered another Planet, situated in Ophinchus, and to which the name of Hebe was given, with a cnp for its symbol (\Im). The place occupied by the Planet at the time of its discovery is shown in the annexed engraving.

PLACE IN THE HEAVENS OCCUPIED BY HEBE, ON ITS DISCOVERY BY M. HENCKE.



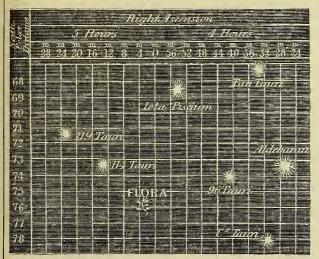
On August 13, 1847, Mr. Hind discovered another member of the remarkable group of Planets between Mars and Jupiter. Mr. Hind observes, in the Monthly Notices of the Astronomical Society (Vol. xvii., No. 17), that "the Planet has

^{*} The interval between Mercury and Venus is too large; and it seems highly prohable there are Planets situated between them, which are invisible by reason of their small size and proximity to the Sun.

been detected in a systematic search, instituted expressly with the view to the discovery of such a body, and commenced in November, 1846. The name given to this Planet is Iris, and the symbol adopted for its designation is a semicircle, with an interior star (3)." The place in the heavens occupied by this Planet at the time of its discovery was engraved in the ILLUSTRATED LONDON NEWS of August 21, 1847.

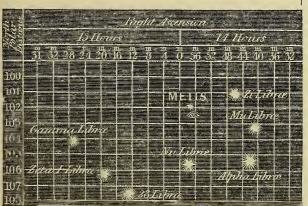
On October 18, 1847, Mr. Hind, while comparing the excellent chart of Professor Knorre with the heavens, discovered what seemed to be a star of the ninth magnitude, and which proved to be another of this remarkable group of Planets. At Mr. Bishop's request, Sir John Herschel has named this Planet, Flora, with a flower (\$\frac{2}{3}\$) for its symbol. The place occupied in the heavens at the time of its discovery is shewn in the annexed engraving.

PLACE IN THE HEAVENS OCCUPIED BY FLORA, ON ITS DISCOVERY BY MR. HIND



1818, Mr. Graham discovered another Planet, at Mr. Cooper's On April 25. Observatory, Markree, Sligo, Ireland, by following up a class of observations recommended by Mr. Cooper. This Planet has been named Metis, with an eye and star for its symbol (\$.). Its place in the heavens at the time of discovery is shewn in the annexed engraving.

PLACE IN THE REAVENS OCCUPIED BY THE PLANET METIS, ON ITS DISCOVERY BY MR. GRAHAM.



Thus six Planets have been discovered in less than three years: the first, Astrea, the 8th of December, 1845; the last, Metis, April 25, 1848. These several discoveries of telescopic Planets lead us to suspect the existence of many such bodies, yet undiscovered; and there seems good reason to believe that in a few years we shall have a large addition to the members of the Solar System. M. Valz has proposed to the Académie des Sciences de Paris, a plan which, it is believed, would, in four years discover all these unknown Planets, by examining carefully all the small stars situated near the ecliptic. To the carrying out of this plan it is necessary to construct 24 celestial charts, containing all the stars to the 12th magnitude situated in or near the ecliptic, and subdividing the work of examination into twelve parts. M. Valz has presented to the Académie a chart of this kind, constructed by M. Faye.

The dimensions of the orbits of these nine small planets are nearly the same; The dimensions of the orbits of these nine small planets are nearly the same; but their inclinations to the plane of the ecliptic are very different. Their inclinations are—Flora, 9° 1′ 37″; Iris, 13° 20′ 50″; Vesta, 5° 7′ 22″; Hebe, 11° 31′ 11″; Astrea, 10° 49′ 56″; Juno, 14° 42′ 20″; Ceres, 4° 24′ 57″; Fallar, 13° 54′ 40″; and Metis, 5° 38′ 24″. Their periods of revolution are, Flora, 1193 days; Iris, 1345 days; Vesta, 1325 days; Hebe, 1375 days; Astrea, 1510 days; Juno, 1595 days; Ceres, 1681 days; and Pallas, 1686 days.

The dimensions of all these Planets are small; and they are not distinguishable by the naked eye; and the most powerful telescopes have hitherto failed to measure their apparent diameter with even tolerable accuracy.

TIMES OF THE POLE STAR BEING ON THE MERIDIAN, OR DUE NORTH, DURING THE YEAR 1849.

THE Pole Star being situated at the distance of 101 from the North Pole, seribes as small circle round it once in 24 hours, and is therefore on the meridian, or due north, twice every day, once above the point round which it revolves, and once below it. The following are the times on the 1st day of every month this year that the Pole Star is so situated, and at no other times is this star due north

		1		Ħ.							н.	M			
Jan.	l a	t	6	22	2	A.M.	below th	e Pole,	and	6	20	4	P.M.	above	the Pole.
Feb.	1,	,	4	19	43	,,		,,		4	17	45	12		22
March				29		,,		,,			27		"		"
	l,			27		"		,			25		,,		,,
May	i,						above th	e Pole,	and	10	25	30	,,	below	the Pole.
June	l,			25				,			23		"		,,
July	l,			2 8				,			26		"		,,
	l,			26		"		,			24		,,		,,
Sept.	l,			25		99		19			23		,,		**
Oct.	1,			27				,,	_		25		22		11
Nov.				23			below th	e Pole,	and				"	above	the Pole.
	l,			25		,,		,,			23		"		**
Dec.	31,	,	6	27	8	,,		,,		6	25	10	,,		"

From these times those of the meridian passage of the star can be easily cal-

culated for any other day in every month.

All stars whose angular distance from the North Pole is less than the colatitude of the place of observation, are on the Meridian twice every day; and all stars whose distance from the North Pole is greater than the co-latitude of the place, are on the Meridian once only every day: and at these times they are ituated due south.

MAGNETIC DECLINATION, OR VARIATION OF THE COMPASS.

In the Almanack for the year 1847, we gave the average monthly position of the magnetic needle, with respect to the astronomical meridian, for the years 1841, 1842, and 1843. In the Almanack of last year, the values of the angles between the astronomical and magnetical meridian for Greenwich, were given for the year 1844. Within the last year, two volumes of the Greenwich Magnetical and Meteorological Observations for the years 1845 and 1846 have been published; from which we learn that the following were the monthly values of the westerly declination, deduced from two-hourly observations made during the day and with the transfer 185 and 1845 and 1846. night, in the years 1845 and 1846.

1845.				1846.	
Jannary	220	58'	6"	January 22° 5	50′ 56″
February	22	57	20		50 17
March	22	57	6	March 22	49 21
April	22	59	14	April 22 5	51 51
May	22	57	28		19 32
June	23	1	10		1 43
July	22	57	24		19 24
August	22	58	11		19 33
September	22	56	7		8 55
October	22	53	2 i		7 55
November	22	52	53		7 38
December	22	52	18		17 51

And the mean westerly declination, for the year 1845, was 22° 56' 43"; and that for the year 1846 was $22^{\circ}49'$ 35". The decrease, from the year 1844 to 1845, was 18' 36"; and that from the year 1845 to 1846 was 7'8".

MANETIC DIP.

If a magnetic bar be suspended by its centre of gravity, so as to connteract the action of gravity, it will settle in the Magnetic Meridian; but that extremity of it which is directed towards the north will point downwards, or, as it is technically called, dip. The magnet thus inclined at Greenwich is now something less than 69°. The following are the mean quarterly values of this element, as observed at the Royal Observatory, Greenwich, in the years 1845 and 1846, extracted from the published volumes for those years.

MEAN QUARTERLY MAGNETIC DIP

Months forming the Quarterly	At 9h	A.M.	At 3h. P.M.			
Period.	1845.	1846.	1845.	1846.		
Jannary, February, March April, May, Jnne July, August, September October, November, December	68° 58′ 68° 56′	68° 58′ 68° 57′ 69° 1′ 68° 59′	69° 0′ 68° 57′ 68° 54′ 68° 59′	68° 56′ 68° 57′ 68° 59′ 68° 59′		

And the mean value for the year 1845, at 9 A.M. was 68° 564' at 3 P.M. was 68° 58' 1846, at 9 A.M. was 68° 58' 1846, at 9 P.M. was 68° 57½' at 3 P.M. was 68° 57½'

The mean Magnetic Dip, at 9h. A.M., had decreased between the years 1844 and 1845 by 3½; and between the years 1845 and 1846, it had increased ½. The mean Magnetic Dip, at 3h. P.M., had decreased between the years 1844 and 1845 by 2½; and between the years 1845 and 1846, it had decreased by half a minute of arc. These values of the dip and declination at Greenwich are not always the same. See the Almanacks of the two preceding years.

ENCKE'S COMET.

ENCKE'S COMET.

In the year 1818, Encke ascertained the period of a small comet to be 1208 days only. This announcement was received with some degree of doubt by many persons. The comet had been seen several times before; in 1786, by Messrs. Mechain and Messier; in 1795, by the late Miss Herschel; in 1805, by Pons; and in 1818, by Pons again; but at these times it was supposed that different comets had been observed. Encke announced its re-appearance in 1822, and it was observed at this time by Sir Thomas Brisbane, at Paramatta. It has since become that this was caused by the comet meeting resistance to its free motion by the medium through which it passed. On August 14th, 1848, Lieutenant Stratford, the superintendent of the Nantical Almanack, published an ephemeris of this comet; and on September 22nd, 1848, it was discovered by Professor Smyth, at the observatory of Dr. Lee, at Hartwell, occupying a place differing from that predicted by 24 seconds in Right Ascension, and 50 seconds of arc only in North Polar distance.

THE FLOWER-GARDEN, &c.

BY MRS LOUDON.

JANUARY.

JANUARY.

The principal work that can be doue in a garden in Janusry is to protect tender plants from fost, and this is a task of no small difficulty in pleasure-grounds and shrubberies, as damp must be guarded against as well as cold-After warm dry summers the task of protecting half-hardy shrubs during the winter is rendered comparatively easy, by the ripening and hardening of the wood; but after a summer like that of 1848, the young wood which has grown remains even in winter green and succelent, and is as easily killed as the stalk of any herbaceous plant. After such a season it will be useless to attempt to cover the stems and leaves of ba'f hardy evergreens, particularly those with thick fleshy leaves, like the camellia and the evergreen magnolia; and the best way will be to protect their roots and the lower part of the stem with a ther mulching of straw or decayed leaves. In most situations, the acacias and ther Australian plants which require matting to preserve their stems, will probably be killed to the ground; but it must be observed, that when acacias are killed by frost, the stem only should be cut down, and the root should be left in the ground, as in most cases it will send up fresh shoots the following spring. Herbacouplants require no other treatment than covering the roots with dead leaves, as the stem-generally die down in autum. The tree pagony is, bowever, frequently pants require no other treatment than covering the roots with dead leaves, as the stems generally die down in autumn. The tree pæony is, bowever, frequently affected by spring frosts, and it is best pricected by a skeleton framework of hoops, covered with mstting, sufficiently large and light to admit of its being taken off in the middle of the day, when tho air has been warmed by the sun. Bulbs, when they are left in the ground during the winter, should never be covered with straw, and only moderately with dead 'caves, as they are easily injured by dsmp, and when deeply covered they are frequently attacked by mich large by dsmp, and when deeply covered they are frequently attacked by mich alpine plants are most easily protected by plunging the pots in a bod of earth, over which is placed a skeleton frame made of half hoops at regular distances, and covered with matting. It must be observed that in all cases where it is directed to protect plants by covering them with mats, which are to be taken off during the sun sets; or, as a safer rule, they should only be taken off between ten in the morning and three o'clock in the afternoon. The eggs of insects should be sought for at this season, and destroyed wherever they can be found. In greenhouses as much mischief is often done by keeping the plants too hot, as would have been experienced by exposing them to the cold. The proper heat, for a greenhouse is never to let the thermometer fall lower than 40°, nor rise above 45°. Air should also be given regularly every day when it is not actually freezers.

for a greenhouse is never to let the thermometer fall lower than 40°, nor rise above 45°. Air should also be given regularly every day when it is not actually freezing. It is an important axlom in plant culture, that air is as necessary as water; and the admission of air to a greenhouse, particularly during winter, is absolutely essential for the health of the plants. Plants obtain nourishment from air as well as from water; and when they bave too much water and too little sir, they invariably damp off. The sashes of every greenhouse should be made to open at the top, to admit the exit of the heated air before any cold air is suffered to enter; as, if the lower sashes are opened first, so as to admit the cold air before the beated air has escaped, the latter is condeused, and falls back upon the plant in visible drops, and this is found to be highly injurious to them. Plants may be preserved during winter in what is called a cold pit, quite as well as in a greenhouse. A cold pit is an excavation in the ground, to the depth of about three and a blar of the first, work being raised about a foot above the surface of the ground, and a wood, and

frame, the angle of wblch should be between 15° and 25°, fixed to it, in which a sash light ls made to slide. The plants are placed at the bottom of the pit, and, when the weather is very cold, a mat is placed over the glass. In most places plants msy be preserved in pits of this kind during the most severe winter without fire heat. When the plants to be preserved are very small, the pit need not be made so deep. When plants are kept in pits of this nature, they will require air to be given to them every fine day between ten and three. It should never be forgotten that all plants, whether in the open air or in a greenhouse, should be kept as dry as possible during winter. Plants in pits and greenhouses should have no more water given to them than is sufficient

Among the few ornamental plants which are in flower at plarts which are in flower at this season, may be mentioned a new kind of yellow jasmine (Jasminum nudiflorum), which was introduced by Mr. Fortune, from Nankin in China, in July, 1844. It was at first kept in a greenhouse; but, like most of the other plants which have been introduced from have been introduced from China, it was soon found to do best in the open air; and it flowered beautifully in the garden of the Horticultural So-

JASMINUM NUDIFLORUM.

JASMINUM NUDIFLORUM.

Jasminum nudiflorum.

abundance, but are destitute of fragrance, and appear without the leaves. The plant is generally trained to a trellis, or tied to an upright post three or four feet high, so as to permit the young twigs to hang down, which they are not undifferent to the control of the high, so as to permit the young twigs to hang down, which they are naturally inclined to do.

FEBRUARY.

THERE is very little to be done in the pleasure-grounds and shrubbery in this month; but the gravel walks in both should be attended to, as gravel walks are very liable to be injured by melting snow. Care, therefore, should be taken, as

soon as a thaw commences, or before, to remove a portion of the snow; and, as soon as the ground is sufficiently dry, the walks should be esrefully rolled. Seeds of trees and shrubs are generally sown in this month; and the rule for sowing them is to let the soil be as deep above the seed as the seed is thick. In the flower-garden great care should still be taken to protect the balf-hardy plants, not only from the frost, but from the sun, which at this season is frequently very powerful. It must be observed this the mischief done by frost is always very greatly increased if the sun be permitted to shine upon the frozen plant: it is the exposing a frost-bittin person to the head of a great fire. The best thing that can be done when a plant is frozen is to cover it over with a flower-pot, or some other covering, till the air has graduslly become sufficiently warm to thaw it slowly. The cboicer kinds of snemones and rannuculuses are planted in this month. They are generally planted in rows about five inches apart and two inches deep; and a little sand is put under each tuber when it is planted. In planting the rannuculus tubers, care should be taken to put the claws downwards, and not break off any part of them, as when the claws are broken off the tubers are very apt to rot. In planting the anemone tubers, the eye on the tubers are very apt to rot. In planting the anemone tubers, the eye on the tubers are very apt to rot. In planting the anemone tubers, the eye on the tubers are very apt to rot. In sequence, which have become a kind of manuring a flower-garden, and the best kind of manure for the purpose is the remains of an old hot-bed. Decayed leaves, which have become a kind of mould, and chopped turf taken from an old pasture, are also very useful for enriching the ground intended for flowers; but guano and the new kinds of mineral manures are very dangerous in inexperienced hands, and even first-rate gardeners frequently find them produce injurious effects.

Very five flowers are in blossom in February, thou



grow freely in the open gardens in the neighbourhood of London, and to produce abundance of flowers, particularly if trained against a wall. The flowers are yellowish, with a purple mark at the bottom of each present and they appear before the leaves, which are of a smooth shiuing light green. There are two varieties: the first, while common, has the flowers much larger and handscmer than those of the species but not quite so fragrant; and the other, which is very rare, has the flowers much smaller, and entirely yellow. In China and Japan, it is said that at great banquets pieces of the chimonanthus are laid by every plate. Plants of this shrub may be procurred in most of the unreseries at about three-and-skypence each: observing that it is known best under its old name of Calucanthus precedes.

great banquets pieces of the chimonanthus are laid by every plate. Plants of this shrub may be procurred in most of the unrescries at about three-and-sixpence each; observing that it is known best under its old name of Calycamhus precox. In greenhouses ventilation ought to be carefully attended to. Whenever the air simild, and the sun shines, the door should be opened, as well as the windows, for at least half an hour in the middle of every day, so that there may be a free current of air tbrough the house. All the dead leaves should be removed, as soon as they are sufficiently decayed to come off the plant without injuring it; and if any moss or green matter appears on the surface of the earth in the pots, it should be removed, and the earth loosened with a fiat piece of stick about an inch broad. It must be observed, that what has been said of removing the dead leaves does not apply to bulbous plants, as their leaves sbould be left on a slong a possible. Plants require very little water at this season; but fire heat is even more useful than in the middle of winter, as it serves to dry np the damp, which is now a most dangerous enemy to plants. Where cuttings of greenhouse plants which were struck in autumn bave been kept several together in one pot during the winter, they should now be potted separately.

A bot-bed may be made in this month for raising the seeds of tender fl.wers and striking cuttings. The mannre used need not be more than two feet deep, and it should extend three or four inches beyond the frame on every side. When the steam of the manure is sufficiently gone off, a layer of light soil, six inches thick, should be spread over the bed. In this bed may be plunged pots contsining the seeds of petunias and verbenas of various kinds, Pilox Drummondi, several softs of mimulus, the blue lobelias, &c., and also of the following kinds of climbing plants, which will be found very useful for training against verandas, or to cover iron rsilings during summer:—The canary-bird flower (Tropocolum pereprinum) begin to grow. The tubers of Fuchsia fulgens and Salvia Achimenes longiflora, may be treated in the same manner.

MARCH.

In this month turf is generally laid down, the ground having been first dug over, levelled, and rolled with a heavy roller. It is then slightly watered, If the weather happens to be dry; and the turf, which is brought to the ground in long strips rolled up, Is laid down, the edges being carefully joined, and the pieces made to fit exactly. The turf is then generally beateu with a beavy beater, and carefully rolled. Where a lawn has been laid down a long time, it should be frequently rolled in this month, as lawns are very apt to become uneven during winter. The grass should now begin to be mown once a fortnight, as it is Impossible to have a fine closely covered surface of grass without regular mowing:

winter. The grass should now begin to be mown once a fortnight, as it is Impossible to have a fine closely covered surface of grass without regular mowing: the rule is, once a month in winter, that is, in December, January, and February; and once a fortnight for the rest of the year. In warm moist seasons, the grass sometimes grows so fast as to require mowing once a week in summer; but in dry seasons the roots are apt to be burnt, and the grass killed, if it is mown too often. In the flower-garden most of the plants will now require to be taken up, divided, and re-planted; a little fresh earth being given to them, and all the decayed parts cnt out before they are re-planted. The seeds of half-bardy annuals, such as the China asters, Chinese pinks, French and African marigolds, everlastings, and ten week stock, may now be sown in a slight hot-bed; and a few of the more hardy annuals, such as the sunflower, larkspur, lupin, convolvatus, candytuft, and poppy, may be sown in the open border; also some of the Cali-

fornian annuals, such as Nemophila insignis and N. maculata, Gilia bicolor and fornian annuals, such as Nemophila insignis and N. maculata, Gilia bicolor and tricolor, and all the kinds of Leptosiphon. Carnations and pinks which were raised from layers last year should now be planted out where they are to flower. Box edgings should also be now planted, and gravel walks made where necessary. Old gravel walks which are in a bad state may now be raked or forked over, and then rolled, though this should never be done when the walks are wet.

In the open ground, the crocness, hepaticas, and other spring plants are now in full flower; and in the shrubberies, the ash berberries, or malonias, are in all their beauty.

These plants, which have all been introduced within



MAHONIA AQUIFOLIUM.

all been introduced within the last thirty years, are some of the most valuable additions that have been made for many years. One of the most splendid kinds is the bolly-leaved ash berberry (Mahonia Aquifolium). It is an Aquifolium). It is an evergreen, and its leaves, which are of a beautiful dark shining green in summer, assume a purplish tinge in autumn and winter, and are of a beautiful yellowish red when they are quite young. The flowers, which are of a brilliant golden yellow, are produced in large clusters in March aud April, and they are succeeded by clusters of dark purple fruit, covered with

the most beautiful violet bloom. The plant is a native of California and Mexico, and, indeed, it is found on nearly all the north-west coast of North America, growing in rich vegetable soil in woods, where it forms a thick undergrowth. When it was first introduced into England, in 1823, the plants sold in nurseries attenguineas was first introduced into England, in 1823, the plants sold in nurseries atten guineas each; and, as it could only be propagated very slowly by layers, the plants continued to be sold at a high price for several years. As, however, it is now found that It can be propagated by seeds, which ripen freely in this country, plants can be procured in most nurseries at sixpence each. There are several other kinds of Mahonia, the largest and most showy of which is called M. fascicularis. It has bluish-green leaves, which look as if covered with a fine bloom, and its flowers are produced in great abundance. It is much taller than the other species, but it is rather too tender to live in English gardens without the protection of a wall; and as it does not ripen its seeds freely, it is still rather dear. Hybrid plants, lowever, have been raised by crossing this with some of the other species. M. repens seldom rises above two feet bigh; and M. glumacea has the peculiarity of producing its flowers in October.

producing its flowers in October.

In greenhouses the plants should be carefully examined, and re-potted when In greenhouses the plants should be carefully examined, and re-potted when necessary, taking care that the fresh pots are quite clean and dry. Cuttings of greenhouse plants are frequently made at this season. The sboot sbould be cut off as smooth as possible, and planted in sandy soil, the earth being pressed firmly round it. The length of the cutting is generally about five or six inches, and two of the lower leaves are cut off with a sharp knife close to the stem. Cuttings of camellias and other hard-wooded greenhouse plants are generally made at this season from the points of the shoots, after the spring growth has been completed, but before the young wood has thoroughly ripened. The cuttings are generally planted about an inch deep, and covered with a bell-glass. Those of the different kinds of beath, being very difficult to strike, are generally made not more than one or two inches long, and they are planted in pure white sand, being then covered with a bell-glass, and the pot plunged in a hot-bed. Cuttings of cactus, mesembryanthemum, and other fleshy-leaved plants, should be dried for two or three days before they are planted, as if they are put in the ground when the wound is fresh they will rot.

APRIL.



DIELYTRA SPECTABILIS. malnder of the hardy aunual plants should be sown. In thiuning the annuals

have been kept in pots, the ball of earth about the roots should be broken, and the roots carefully spread out before they are covered with earth, which should be to the depth of only from two to four inches, according to the soil; the greatest depth being necessary in the lightest soil. The Provence, white, and moss roses should now have their young shoots shortened to three or four buds; but the bybrid Provence roses should have five or six buds left; and the hybrid China, the Bourbon, and the Scotch roses, if intended for planting against a post, or a wooden frame, should have only the tips of their shoots taken off. The evergreen roses should be left at evergreen roses should be left at their full length; for if they are cut in they will produce long vigorous shoots, covered with an abundance of leaves, but having

In the flower-garden, the earlyflowering dwarf kinds of dahlia may be planted; and as the auri-culas will now begin to flower, they should be shielded, if possi-ble, from the effects of the weather. The hardy annuals that were sown in March in the open border should now be thinned, and the seeds of the re-

that have come up, care should be taken not to pull up or loosen those which that have come up, care should be taken not open up or agreement are intended to remain. Annuals should always be thinned according to their height, three or four of the larger kinds being left in each patch; while of the dwarf kinds it may be safe to leave as many asseven or eight. Some few the dwarf kinds it may be safe to leave as many as seven or eight. Some few annuals are worth the trouble of transplanting; but when this is the case, the bole in which they are to be put sbould be made with the point of the trowel, Instead of using the dibber, as the latter instrument renders the earth the trowel, instead of using the dibber, as the latter instrument renders the earth on the sides of the hole so compact that it is impossible for the roots of a young and feeble plant to penetrate into it. Among the flowers which are most beautiful in this month may be mentioned Dielytra spectabilis, introduced by Mr. Fortune, from China, in 1846. It is quite hardy in ordinary flower-gardens; the stems dyling down to the ground in autumn, and the roots remaining dormant until the following spring, when the plant again appears, and flowers in April, May, and June. It is readily increased by dividing the roots in spring when the young shoots be gin to appear, or by cuttings taken off in summer. It will grow in any common garden soil; but the situation in which it is placed should be sbeltered from high winds. This plant is, at present, scarce and dear. It is nearly allied to the finmitory, but its leaves resemble those of the tree pacony.

The greenbouse will require very little attention in this mouth, except as recoming into flower should be syringed over their leaves every other day till the flowers expand, when the syringing should be discontinued. In small greenlouses where there are vines, they begin to show flower buds in this month.

flowers expand, when the syrliging should be discontinued. In small greenlouses where there are vines, tbey begin to show flower-buds in this month.

In the conservatory, climbing plants are generally pruned and thinned at this
season. The passion-flower should have its side shoots cut to within half an
inch of the main stem; and this will occasion strong blossoming shoots to
spring from the part left. Maurandyas may be treated in a similar manuer; but
most of the other greenhouse climbers will only require thinning. When camellias
are required to blossom early, they should be placed, during this month, in a hothouse, or some other situation where they can be kept at a heat of from 50° to
60°; taking care tbat, while they are kept in this heat, they are regularly watered every day and their leaves syringed every other day.

MAY

In the lawn worms are often very troublesome during this month; and, to kill In the fawl worlds are other very troubesome during this month; and, to kill them, the grass should be watered with lime-water, made by mixing forty gallons of water with one peck of fresbly-slacked lime. The mixture should be well stirred, and then suffered to stand till the sediment is deposited. The trees and shrubs which were planted in April should be frequently

watered; the grass should be mown once a fortnight, and raked up, so as to cover the ground about the roots of the newly-planted trees, in order to keep them moist. The buds of the roses should be examined in this month, as they are very apt to have a small caterpillar in them, which, if not removed, will either destroy the bud, or, at least, prevent it from expanding.

In the flower-garden, some of the hyacinths and tulips will probably have acmths and tunps will probably have their leaves sufficiently decayed to come off when slightly pulled with the hand; and, when this is the case, the bulbs should be tsken up and spread out on a mat in some dry airy place. The crocuses, snowdrops, and coruflags should, however, be left in the ground. The tubers of the tall-growing dahlias may be planted in this month; and when they are put into the ground care should be taken to place the eyes or buds uppermost, covering the crown with about three inches of soil. Weigela rosea is a new plant which flowers in this month, introduced



WEIGELA ROSEA.

Weigela rosea is a new plant which flowers in this month, introduced from China, by Mr. Fortune, in 1846. It forms a handsome middle-sized bush, resembling the Philadelphus, or, as it is generally called, the Syringa, or mock orange, and it is quite as hardy as that well-known plant. The flowers of the Weigela are of a beautiful bright rose-colour; and they are preduced in great numbers, banging down in graceful natural festons. The plant will grow well in any common garden soil; and it is propagated by cuttings, made at any time in the spring or summer. Though so recently introduced, it is so easily propagated that it is already advertised in some nurseries at eighteen-pence a plant. This plant is nearly allied to the fly honeysuckle. The ball-hardy annuals and climbing plants, which were raised in hot-bed, may now be planted out in beds, previously prepared by digging in a coating of the remains of an old hot-bed, or frotten leaves. If the plants, bowever, have been kept in the hot-bed where they were raised, they should be hardened, by placing the pots first in a greenhouse or cold frame, and then in the open air, first only in the middle of the day, and afterwards all day long, before the plants are taken out of their pots and finally placed in the open ground. In putting the plants into the ground, care should be taken to keep them at least a foot apart; and those that have long trailing branches should be planted with their branches to the north, the branches being perged down immediately. As the art of pegging down judiciously is of the greatest possible importance to the beauty of a flower-garden, it is natural that amateurs should be anxions to know what to us: for the purpose. Most gardening books say short hooked sticks; but these are not always to be obtained, particularly in suburban gardens. A correspondent of the Gardeners' Chronicle, who despises the hair-pins, recommends taking pieces of bast mat, and twisting them so bard as to be able to force them into the ground; but this appears to me rath Another correspondent of the *Gardeners' Chronicle*, who despises the hair-pins, recommends taking pieces of bast mat, and twisting them so bard as to be able to force them into the ground; but this appears to me rather a difficult operation, and, as I bave not been able to accompile by it myself. I think few ladles will be able to manage it, and that, therefore, it will be best for them to try the hair-pins, or to use small bent pieces of wire, prepared for the purpose, which are sold at some of the ironmongers. When plants are pegged down, the branches should be spread carefully over the teds, and the pegs placed at the joints.

Most of the greenbouse plants may be removed into the open air in this month; and, if they are to remain in pots, they are generally shifted about this time When plants are re-potted, the earth should be shaken in, and gently pressed

down, but not too firmly: as, in one case, if hollow places are left between the down, hut not too firmly: as, in one case, if hollow places are left between the roots and the pot, the roots will wither; whole, in the other, if the earth is too compact, the roots will not be able to penetrate through it, and it will become impervious alike to air and water. Where vines are grown in a greenhouse, the berries will now be generally set, and experienced gardeners always thin them, as more grapes are produced on each bunch than can be ripened. It is, however, rather a difficult operation for an inexperienced person, as the bunches must not be touched by the hand, and, consequently, it is generally seef for amateurs to leave the bunches without thinning the grapes. It will be, however, recovery the rough the given as the shocks generally nucle un vigorously. amateurs to leave the bunches without thinning the grapes. It will be, however, necessary to prune the vincs, as the shoots generally push out vigorously at this season, and consequeutly gardeners generally cut off the ends of the shoots, leaving not above two joints on each. The greenhouse should be kept warm and as moist as possible while the grapes are swelling; but the vines should not be syringed, the moisture being produced by pouring water on the floor.

A great many caterpillars are found at this season; and they should be sought for, and destroyed early in the month, while they are small, as they have done their principal mischief when they have attained their full size.

JUNE.

In the month of June there is very little to be done in the flower-gsrden. The work of preparation is over, and that of enjoyment has begun. In the pleasure-grounds, however, the lawn should be mown every fortnight, and rolled every week; and in the flower-garden the annual flowers should be tied up and cut in where it is necessary to make them appear neat. Carnations are now going into flower, and as the buds are very apt to burst on one side before they open, some gardeners separate the sepals regularly all round with a penking; others, to prevent the calyx opening too far, tie a piece of wexed thread round the middle; and others cut a piece of cardboard so as just to encircle the calyx, so that when



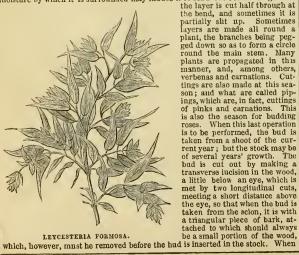
and others cut a pisce of cardboard so as just to encircle the calyx, so that when the flowers expand the petsls appear to rest upon the card, and, of course, form a regular flower. Box edgings should be cut about the middle of this month, if the weather be moist; but, if the weather be dry, it is generally considered advisshle to wait for rain, as box edgings which are cut when the weather is dry are very apt to look brown, and to die half-way down the shoots. Amongst the multitude of plants which are in flower at this season, the most ornamental shrub is decidedly *Ceanothus azureus, which is now covered with panicles of flowers, of a brilliant celestial blue. It is a native of Mexico, whence it was introduced in 1818, and it flowers best when growing against a wall. In its native country its bark is considered useful in cases of fever. There are several other species of *Ceanothus*, and amongst them the common red species of Ceanothus, and amongst them the common red root, or New Jersey tea (C. Americanus). C. azureus is, CEANOTHUS AZUAEUS. however, by far the most ornamental species of the genus, and it may be procured in any nursery for about eighteen-pence a plant. Ceano-

thus is nearly allied to the genus Rhamnus.

As the greenhouse plants are now generally set out in the open air, the prin-As the greenhouse plants are now generally set out in the open air, the principal care that they require is to remove the dead leaves, and to prevent the roots from striking through the hole in the bottom of the pots. If any of the plants appear to droop when they evidently do not want water, they should be turned out of the pot on the hand, and their roots examined, as there is most probably a worm in the pot, which should be instantly removed, as worms in pots are very destructive by cutting through the roots. If any plants are kept in the greenhouse at this season, they should be frequently and carefully examined, as they are very apt to become infested with some kind of 4phis. They should also be watered and syringed every day, unless any chance to he in flower, when the syringing may be dispeused with.

In the vinery a moist atmosphere will he no longer requisite.

VERY little requires to be done in the shrubbery at this season; hut evergreen plants may now be removed if they are watered immediately after transplanting. The rhododendrons and other plants which have done flowering should have their seed pods removed as soon as they are formed, as if they are allowed to ripen their seeds every season, they will become weak and die in a few years of premature old age. In hot dry weather, choice plants in the shrubbery should be watered; but it is of no use doing so unless the surface of the ground is first loosened. Plants should never be watered with cold spring-water, as it is always injurious, and in very hot weather positively dangerous. Where there is no other water, it should be exposed to the atmosphere for several days before it is used. In the flower-garden, this is the season for making layers. A layer is the branch of a plant, which is twisted or wounded so as to prevent the free circulation of the sap, and to occasion an accumulation of it to be deposited in the part just above the obstruction, which is buried in the ground in the hope that the warmth and moisture by which it is surrounded may induce it to send out roots. In general the layer is cut half through at the bend, and sometimes it is partially slit up. Sometimes



partially slit up. Sometimes layers are made all round a plant, the branches being peg-ged down so as to form a circle round the main stem. A plants are propsgated in Many manner, and, among others, verbenas and carnations. Cuttings are also made at this season; and what are called pipings, which are, in fact, cuttings of pinks and carnations. is also the season for budding roses. When this last operation is to be performed, the bud is taken from a shoot of the current year; but the stock may be of several years' growth. The bud is cut out by making a transverse jucision in the wood, a little below an eye, which is met by two longitudinal cuts, meeting a short distance above

the hud is prepared, two slits in the shaps of an inverted T are made in the stock, and the bark on each side of the long cut being raised with a knife, the bark to which the bud is attached is slipped in, and tied in its place with bast mat; the principal care required in the operation heling to make the horizontal edge of the cut in the stock fit exactly to the horizontal edge of the bud. One of the most beautiful shrubs now in flower is the *Leycesteria formosa; as the deep green of its stsm and leaves contrasts strongly with the reddish purple hue of the large bractas which shade its white flowers. It is generally considered to be allied to the honeysuckles. The plant was originally introduced in 1824; but being little known, it was neglected and forgotten till it was re-introduced from Nepal, in 1836. It is quite hardy, and has the advantage of growing and flowering freely close to the sea. The tamarisk is another plant which will also grow close to the sea; but most other flowering shrubs are seriously ir jured by the spray.

In the greenhouse there is nothing to be done this month, except in the way of cleaning it, by whitewashing, painting, &c., if the plants bave besn all removed to the open air. Many of the greenhouse plants may, bowever, bs propagated by layers or cuttings, and, in particular, cuttings may be made of hydrangeas, camelliss, shrubby cinerarias and calceolariss, and pelargoniums (geraniums); and the cuttings that were made in March should be potted off. Camellias may be also budded or lnarched in this month. It may bere be observed, that whenever cuttings of woody plants aro made at this season, they should be taken off at the function between the old wood and the new; and they generally grow so readily, that if pots be scarce, they may be planted in richarch and the generally grow so readily, that if pots be scarce, they may be planted in richarch and they generally grow so readily, that if pots be scarce, they may be planted in richarch in a warm border, provided they are closely cov are found to strike soonest if the even base of the cutting is made to rest against the carthenwars bottom of the pot; and in this way much larger cuttings can be struck than could be done by any other mode.

In the vinery, the principal duty of the gardener is to keep a dry atmosphere while the grapes are ripening, and to guard against wasps and other insects. At this season, some gardeners cut off the side shoots of their vines.

AUGUST.

In the pleasure-ground and shruhbery the strong shoots of the coarser-growing shrubs should be shortened, or they will overpower the weaker ones. It is a very common fault, in planting shrubberies, to place choice and delicate shrubs near common coarse-growing ones, and then, in a few years, surprise is expressed that the valuable shrubs have vanished, and only the common kinds remain. The seed was she of the roses the daydness and other favoring shrubs should be shrubs about the common kinds remain. common coarse-growing ones, and then, in a few years, surprise is expressed that the valuable shrubs have vanished, and only the common kinds remain. The seed-vessels of the roses, rhododsndrons, and other flowering shrubs, should be taken off as soon as the flowers lave fallen, in order to prevent the ripening of of the seeds, which would weaken the plants. If the flowers of all shrubs were removed as soon as the petals have fallen, the plants would not only be strengthened, but in msny cases a second crop would be produced. Towards the end of the month, evergreen shrubs may be transplanted if they have completed their spring growth. Holes should be dug for re-planting before the plants are taken up, as evergreen should not be kept out of the ground a moment louger than can be avoided; the drying of their roots being very injurious to them. As large a ball of earth should be taken up with the plants as possible; and as soon as the plants are put into their places and a little earth thrown upon their roots, a quantity of water should be poured in through au old birch hroom, a colander, or anything that will break the force of the water and prevent it from washing the earth awsy from the roots a kind of puddle. As soon as the watering has dried up a little, the earth should be filled in to the level of the ground, though it should not then be trodden; but after remaining four-and-twenty hours, it may be trodden down quite firm, and afterwards the surface dressed with a rake. In about a fortnight, if the weather should be officed water should be filled up again level to the surface. If the weather should continue hot and dry, another thorough wstering should be given at the end of another fortnight; and these waterings may be repeated occasionally, if they should be rendered necessary by the season, observing, however, that it is better to wster the plants very seldom, and to give them but a little each time.

In the flower-garden there is yery little to he done. The flowering plants

and to give them but a little each time.

In the flower-garden there is very little to he done. The flowering plants should be watered if they ap-

pear to droop; and the layers that were made from the carnations and pinks should be potted.

The greenhouse plants in the open air should he regu-larly watered every evening; and the auriculas may be re-potted. Among the new plants that flower at this season may be mentioned the New Zealaud speedwell (Veronica speciosa), which was introduced in 1843. It is a very showy plant, grow-ing from three to six feet high, and producing large spikes of dark purple flowers. Though and producing large spikes of dark purple flowers. Though so lately introduced, it is al-resdy marked in some of the nurserymen's catalogues at eighteen-pence a plant. It is very nearly hardy, but it suc-ceeds better when planted in a conservatory than in the open air, unless it is in a warm sheltered situation. In the vinery, the grapes will

In the vinery, the grapes will uow beripe, and moisture and dust should both be guarded sgainst till they are cut. As soon as the grapes are all re-

the roots.

VERONICA SPECIOSA.

moved, the leaves of the vines should he well syringed, and the plants watered at

SEPTEMBER.

In this month the principal thing to be attended to in the shruhbery is to en-In this month the principal thing to be attended to in the shruhbery is to endeavour as much as possible to harden the tender trees and shrubs; and the only way to do this is to keep the roots as dry as possible, and to expose the branches to the full influence of the sun and air. Where half-hardy trees are grown against a flued wall, the fire should be continued at this season, though the

flowers are all over and even the leaves are beginning to fall, in order to ripen the young wood, that it may produce flower-buds for the ensuing year. Tender plants that have been grown in a dry soil, and have had their wood well ripened, will bear a much greater degree of cold than half-hardy plants which have been grown in a damp close situation, with stagnant water about the roots. In the flower-garden, the annual plants which have done flowering should be pulled np and thrown away, as nothing can have a more wretched appearance than long, dry, leafless stems; and the bed from which they have been removed should be raked smooth. Beds for hyacinths and tulips should be prepared by



trenching them two feet or three feet deep, if the soil will admit of that being done without breaking into the sub-soil; and at about eight Inches from the surface should be laid a thick stratum of strong loam and rotten mannre well mixed. The beds should then be filled up with lighter loam, and left to settle for four or five weeks. Beds for ranunculuses and anemones are also sometimes pre-pared at this season, though it is better in most soils to postpone making them till February. There are, per-haps, few genera that have haps, few genera that have so great a variety in their flowers as the Anemone. The common garden anemones, as is well known, are of different shades of pink and purple; the wood anemone is white; the Anemone paimata of a brilliant yellow; and A. apennina of a celestial blue. But none of these flowers. But none of these flowers, though they are all beau-tiful, can be compared in splendour with the Anemone japonica, the flowers of which are of a bright Rosa gallica. This splen-

ANEMONE JAPONICA.

ANEMONE JAPONICA.

mone japonica, the flowers of which are of a bright rose colour, and as large as a rose of the kind called **Rosa gallica. This **ylendid plant, which is quite hardy, and which grows in favourable situations to the height of three or four feet, was introduced from China, by Mr. Fortune, in the year 1844; and though it was at first kept in the greenhouse, it is now found to produce larger and finer flowers in the open air in this month. In Japan, it is said to be found in damp woods, on the edges of rivulets; but it appears also to grow in mountainous places, both in Japan and China. Though so recently introduced, it may be procured in most of the nurseries at nine-pence a plant.

In the greenhouse, some of the more tender kinds of plants should now be housed, particularly the pelargoniums, the succulent plants, and the oranges and lemons. When the plants are first taken into the house the glasses may be left open night and day, but towards the end of the month they should he closed about five o'clock in the afternoon, and not opened again till about eight the following morning. If vines are grown in the greenhouse, the plants should not be taken into the house till the grapes are all gathered. Greenhouse plants should be pruned and cleaned before they are taken into the house, and well syringed, to clear them from insects. In this month the Cape hibs should be potted, and put into a cold pit. If any cuttings of hydranges, or other plants, were made and put into the open border in July, they should now be potted and placed in a cold pit.

Some gardeners prune their vines at this season; as they say the buds are streugthened by their doing so, and a better crop is produced the following year.

OCTOBER.

October is rather a busy month for the gardener, as it is the season for laying out grounds, planting shruhberles, &c. Directions have already been given for planting evergreens, and the same plan may be pursued with deciduous shrubs. It is a great but very common fault in planting shrubberles, to place the plants too near each other. The choice plants, that are intended to remain, should be at such a distance as to allow for ten years growth before they touch, and the intermediate space should be filled up with common plants, a few of which should be cut down.



of which should be ent down every year as the other plants grow. By this treatment the shrubbery will never have a bare and desolate appearance, and the fine plants will be allowed to assess the plants will be allowed to assess the proper forms. sume their proper forms and habit of growth. Care should also be taken not to plant the also be taken not to plant the shrubs which are to remain too near the walks, as if they are badly placed in this respect, they will, in a few years, either require to be cut in so as to spoil their shapes, or they will overhang the walks so as to destroy half the enjoyment of the garden. When roses are planted, a pit should be dug for each, about two feet deep every way, and very rotten manure or thoroughly decayed leaves should be mixed up ten manure or thoroughly de-cayed leaves should be mixed up-with the soil when the roses are planted. Roses that are already in the ground should have very rotten manure or thoroughly decayed leaves laid over their roots, on the surface of the ground. Every fifth or sixth year roses

should be taken up and their roots shortened, after which they should be re-planted in fresh and very rich soil. Hyacinths, tulips, crocuses, and several other bulbons and tuberous-rooted plants

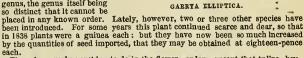
grown in the open ground, should be planted at this season, the hyacinths and tulips being planted in the beds prepared for them in September.

All the greenhouse plants should now be taken into the honses, and those plants which have done flowering should have as little water as possible, so as to prevent them from drooping; while, on the other hand, the chrysanthemums, and other plants which have not yet flowered, should have a great deal of water at this season, to assist them in perfecting their buds. The enttings which were made of greenhonse plants inteuded for the open border the following summer, should now be put into cold pits to preserve them during the winter. The Cape made of greenhonse plants intended for the open border the following summer, should now be put into cold pits to preserve them during the winter. The Cape bulbs, and the bulbs of Agapanhus, Crinum, and the heautiful Japan lilles, may now be potted and placed in a cold pit, where they will flower about the same time as those will do which are planted the following spring in a hot-hed. Cestrum aurantiacum, or the orange-coloured cestrum, is an exceedingly beautiful greenhouse plant, which was introduced by Mr. Skinner, from Guatemala, in 1843. Its flowers, though they are called orange-coloured, are, in fact, of the colour of a ripe apricot, a very unusual tint among flowers, and they have strong perfume of orange-peel. They remain a long time on the tree without fading, and when they drop they are succeeded hy snow-white pear-shaped berries, which are almost as ornamental as the flowers. The leaves are also very handsome, and of a dark shining green. The genns Cestrum was comparatively little known hefore the introduction of this beautiful plant; it belongs to the nightshade family. nightshade family.

NOVEMBER.

In the pleasure-ground and shrubbery the dead leaves should be swept up as they fall and carried to some place where they can lie to rot, being turned over occasionally while they are in a state of decay. If there is no snow on the ground the gravel walks may be raked over to destroy

may be raked over to destroy the moss, and then rolled; and the lawn may be rolled. Roses should be pruned at this season when they are intended to flower early, and each kind requires a different mode of pruning, as mentioned in April. It must be observed, however, that only the hardy roses will bear pruning at this season. The Scotch roses, the sweet brlars, and the varions kinds of climbing roses, should have only the tips of their shoots only the tips of their shoots shortened; and the Bourbon and China roses, &c., should not be pruned till spring. Even at this season some shrnbs are in flower in the open air; and amongst thom may be mentioned Garrya elliptica, a haudsome ever-green shrub, a native of the western coast of North America. The plant was introduced by Douglas in 1828, and it was long supposed to be the only species in the genus, the genus itself being so distinct that it cannot be



There is scarcely anything to do in the flower-garden, except that talips, hyacinths, crocuses, and some other similar bulbs, may still be planted if they were neglected in October.

DECEMBER.

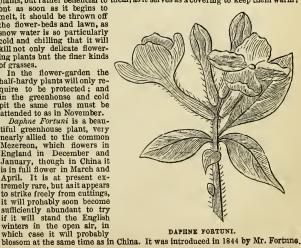
VEEX HUME can be done in the garden at this season, as the ground is generally covered with snow. As long as the frost continues the snow is not injurlous to plants, but rather beneficial to them, as it serves as a covering to keep them warm; but as soon as it begins to melt, it should be thrown off

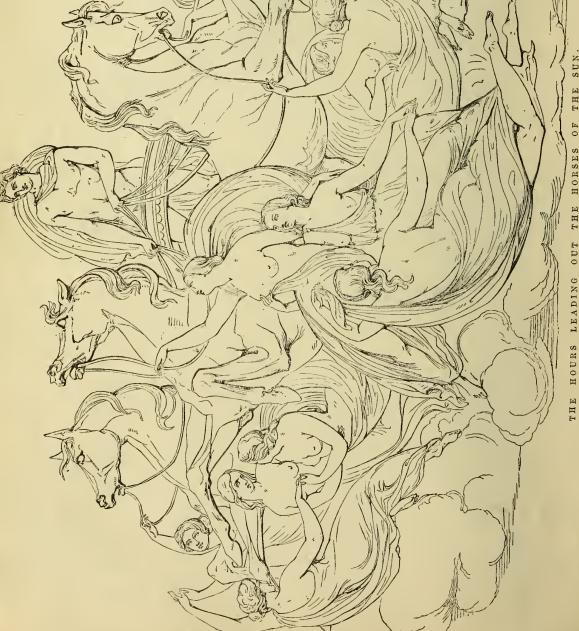
the flower-beds and lawn, as snow water is so particularly cold and chilling that it will kill not only delicate flower-ing plants but the finer kinds of grasses.
In the flower-garden the

In the nower-garden the half-hardy plants will only require to be protected; and in the greenhouse and cold pit the same rules must be attended to as in November.

attended to as in November.

Daphne Fortuni is a beautiful greenhouse plant, very nearly allied to the common Mezereon, which flowers in England in December and January, though in China it is in full flower in March and April. It is at present extremely rare, but as it appears to strike freely from cuttings, it will prohably soon become sufficiently abundant to try





Calendars, Almanacks, Wakes, and Fairs.

In former times, when the parisb priest could scarcely con bis missal, and when the felon who could read bis "neck verse" was allowed the benefit of clergy, from his thus giving legal proof of bis being a "clerk"—"legit ut clericus;" when a knowledge of the first four rules of simple arithmetic was a sufficient qualification for the office of Chancellor of the Exchequer; and when the wise man who could predict an eclipse of the sun or moon, always lay under the suspicion of practising the black art, what kind of Almanack was in use, and how did the husbandman mark the times of earing and of harvest, of sheep-wasbing and sheep-shearing, and of Wakes, Fairs, and Church Ales—matters in which be was deeply interested, both on the score of business and of pleasure?

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th on the score of business and of pleasure?

It is unnecessary, here, to enter into any disquisition respecting the etymology of the word "Almanack," or the time when it began to be popularly used in Europe; It may be sufficient to remark that the thing, under the name of a Calendar, was known in this country at an early period; and that, in its general arrangement, the Calendar prefixed to a book of prayers, about the time of the Conquest, differed but little from a common Almanack of the time of James. In some of those ancient Calendars the time of James I. In some of those ancient Calendars there was a drawing at the commencement of each month, showing how the husbandman was usually employed at that particular period. For instance, iu JANUARY, which the Saxons called Giul aftera—the month after Yule, or Christmas—there was the figure of a man drinking from a Christmas—there was the figure of a man drinking from a horn, representing the New Year festivities. February, Sproutkele (cabbage-sprouting), or Solmonath, Cake Month—a man sitting idly on a beuch, at the door of a house, the weather not yet permitting him to pursue his labour regularly. March, Lenct Monath, Spring Month—a man digging. April, Oster or Easter Monath, the month in which Christ's eastering or rising from the dead was commemorated—a man pruning a tree. May, Trimilki, Three Milkings, from the cows being milked thrie a day in that mouth, during the flush of the grass—a man pruning a vine. June, Weyd Monath and Mede Monath, Meadow Month—a man weeding. July, Hey Monath, Hay Month—a man JUNE, Weyd Monath and Mede Monath, Meadow Month—a man mowing. Angust, Hey Monath, Harvest Mouth—a man mowing. Angust, Arn Monath, Harvest Mouth—a man reaping. September, Gerst Monath, Grist or Grinding Month—a man thrashing out corn for grinding. October, Wyne Monath, Wine or Vintage Month—a man pouring wine from a fiagon into a drinking cup. November, Wined Monath, Windy Month, also Blut Monath, as in this month they killed their cattle and swine for winter provision—a man killing a pig. December, Winter Monath, and Giul eora, Ere or First Yule—a company feasting, indicative of the festivities of Christmas or Yule.

In those old Calendars, the names of the saints were in-In those old Calendars, the names of the saints were inserted under their respective commemoration days; and such days as were more particularly observed by the Cburch as high fectivals, were distinguished by being written in red ink, and hence the term "red-letter day," signifying a holiday. As the deaths of kings, p pea, bishops, abbots, and other eminent persons, and also the dates of memorable events, were frequently inserted in those Calendars, they thus became, to a certain extent, Historical Recorders as well as Remembrancers of Times and Seasons. The introduction of astronomical observations and computations as well as Remembrancers of Times and Seasons. The introduction of astronomical observations and computations into the Calendar was probably owing to the oircumstance of Easter Sunday having to be reckoned from the first new moon that occurred after a certain day. As Astronomy and Astrology were intimately associated in popular opinion, prognostications of the weather, and predictions of political events—"founded on the aspects of the heavenly bodies"—followed as a matter of course; but the seers were so frequently wrong in their foretellings, that "to lie like an almanack-maker" was proverbial in the time of Queen Elizabeth, long ere the art of "figure-flinging" had attained the ne plus ultra of systematic mendacity in the person of William Lyly.

The oldest printed Almanacks appear to be those called

William Lyly.

The oldest printed Almanacks appear to be those called "Wand Kalendars"—Wall Calendars, or, as we now call them, "Sheet Almanacks"—engraved on wood, in the manner of block-books, and printed in Germany, about 1470. Till about the close of the fifteenth century, it would seem that this branch of the cheap book trade was chiefly in the hands of wood-engravers, who at that period appear to have travelled from place to place for the purpose of rendirections. Previous to the introduction appear to have travelled from place to place for the purpose of vending their productions. Previous to the introduction of printed Almanacks, "Clog Almanacks" were in common use in Demmark, Sweden, Norway, and England, and continued to be used by the poorer classes, and such as could not read, until comparatively recent times. These Almanacks obtained their distinctive name from

such as could not read, until comparatively recent times. These Almanacks obtained their distinctive name from their being formed of a Clog or piece of wood, on which were eut various marks, indicative of the days of the week and month, and of the Principal Fixed Terms and Festivals. Clog Almanacks inscribed with Runic characters appear to have been known to the people of Northern Europe, previous to their conversion to Christianity.

Dr. Robert Plot, in his "Natural History of Staffordshire" (folio, 1686), gives an engraving of "a Clog, or Staffordshire Perpetual Almanack," together with a copious explanation of it; and an ample account of ancient Danish Calendars, of a similar kind, is to be found in the "Fasti Danici" of Olaus Wormius, printed at Copenhagen, 1643. Verstegan, speaking of the Anglo-Saxons, says:—"They used to grave npou certain squared sticks, about a foot length, or shorter or longer as they pleased, the courses of the moons of the whole year, whereby they could always certainly tell when the new moons, full moons, and changes should happen, as also their festival days." In Almanacks of this kind, a period of three months was usually inscribed on each side. The different marks were arranged in three columns; the first column contained the days of the month, in a repeated series of marks, in the same manner as the Dominical

Letters; the second column contained marks corresponding with the Golden Numbers, for the purpose of ascertaining the phase of the Moon; and the third was occupied with emblematical marks, expressive of "tides" and seasons and of the greater festivals and saints' days.

In Denmark, Sweden, and Norway, Runic Calendars forms; sometimes carved on a plece of bone, and sometimes on thin pleces of wood, which were afterwards fastened together at one corner, by means of a peg or a thong, and were thus moveable, like the leaves of tablets. The most common form, however, of such Calendars was that of a staff, either squared at the sides or cylindrical; and the usual name for such a staff was, with the Danes, rimstok, and with the Norwegians, primstof; the former term, according to Wormins, signifying simply a calendar-staff, and the latter a staff for finding the prim, or New Moon. A curious cylindrical staff of this kind was cxhibited by Sampson Hodgkinson, Esq., at the meeting of the

New Moon. A curious cylindrical staff of moning the prim, or New Moon. A curious cylindrical staff of this kind was exhibited by Sampson Hodgkinson, Esq., at the meeting of the Archæological Institute, held at Lincoln, in July, 1848. It was about three feet eight inches long; and the Calendar was inscribed upon it in two divisions, commencing at the ton. And extending down to the better the second control of the top, and extending down to the bottom, the one half of the area being occupied with the six months from January to June inclusive, and the other half with the six months from July to December. The characters and emblems from July to December. The characters and emblems inscribed on the division comprising the latter six months are shown in the annexed cuts. The cut on the left shows are shown in the annexed cuts. The cut on the left shows the months July, August, and September; and that on the right, the months October, November, and December. In the original the inscription is a continuous line. The marks are arranged in three columns: the column, in which the characters are closest together, shows the days of the month; the second contains the Golden Numbers; and the third and widest contains the emblems of tides, festivals, and saiuts' days. It may be observed that most of those emblems are not placed exactly under the day of the calendar month to which they belong. In the day of the calendar month to which they belong. In the column of days in the cut to the left, the first characcolumn of days in the cut to the left, the first character that occurs is that which corresponds with G in our series of Dominical Letters; the second in the same column, that which corresponds with A; the third, B; the fourth, C; the fifth, D; the sixth, E; the seventh, F. All the rest of the days, to the end of December, are thus marked by a repetition of the same series of characters. The commencement of each month is denoted by a circle containing the figures of the month is denoted by a circle containing the figures of the Sun and Moon. The months are not lunar; but contain, respectively, the same number of days as our present calendar months. On the characters in the second column, denoting the Golden Numbers, it is unnecessary to make any remark, further than that they are letters of the Runic alphabet, and that they here represent numbers. The following is an explanation of some of the emblems in the third column commencing with July, in the cut to the the third column, commencing with JULY in the cut to the left, and continuing on through each succeeding month till the end of the year;—July: St. Margaret's day, a rake, indicative of the time of hay-harvest. St. Mary Magdalene's day, a kind of vase, representing the vessel containing the precious ointment with which she annointed Christ's feet. day, a kind of vase, representing the vessel containing the precious ointment with which she annointed Christ's feet. St. James's day, two acorns, relating to an ancient northern superstition which, according to Wormius, ascribed the origin of acorns to that day. St. Peter ad vincula, a key. August: St. Laurence, a gridiron, with an instrument like a fiail behind it. The Assumption of the Virgin, a crown. St. Bartholomew, a knife, the instrument with which he was flayed. At Croyland Abbey, in former times, It was customary to give away small knives on St. Bartholomew's day. The Decollation of St. Johu the Baptist, a sword. Septembar St. St. Giles, a pair of sheep-shears, because about that time they usually clipped their sheep. The Nativity of the Virgin, a crown. Holyrood Day, a cross. Michaelmas the Archangel's trumpet and a pair of scales, denoting th's Equinox. St. Francis, a fisb, because about this time the fishery was productive. October: St. Bridget of Sweden, a wool-card, because about this time the farmers' servants were employed in carding wool. St. Calixins, a leadess tree, denoting the fall of the leaf. In some calendars the emblem referring to this day was a glove, denoting the increase of the cold. St. Luke, an ox. November: Martinmas, a goose. In former times, the feast of St. Martin, of Tours, was generally commemorated with coast goose at diuner in England, the custom is now chiefly observed at Michaelmas. St. Cloment, an anchor with an arrow across the shank. St. Catherine, a whoel. roast goose at diuner in England; the custom is now chiefly observed at Michaelmas. St. Coment, an anchor with an arrow across the shank. St. Catherine, a wheel. St. Andrew, St. Andrew's cross. December: St. Nicholas, a ring, and pastoral staff. Conception of the Virgin, a crown. St. Thomas, a hand, relative to the incredulity of St. Thomas, who declared that he would not believe in the resurrection of Christ, except he should thrust his hand into his side. Christmas tide or Yule, drinking horns, denoting the festivity of the season: the sword crossing the horn which stands singly ls the indication of Innocents' day. In the preceding explanation, the em-Innocents' day. In the preceding explanation, the emblems are arranged according to the months under which they appear in the engraving, and not with reference to the precise time at which their corresponding festivals are now observed.

In the middle ages, periodical times were marked rather by the occurrence of Saints' days or Festivals than by the days of the month: thus, the sittings of the Conrts of Law, and the return of writs, were always regulated by the vigil, morrow, or octave of a particular festival; and by those the tenant paid his rent, either in money or goods, at Christmas, Candlemas, Lammas, Micbaelmas, or Martinmas, according to the conditions of his tenure, without any reference to the day of the month on which each festival was kept. Amongst the old Term days, it is believed that May

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Day is the only one which is not specifically distinguished by being associated with a festival or office observed by the Church. Though the derivation of Lammas, from Loaf-mass, be doubtful, it is evident that the period was originally determined by the celebration of some Mass or other religious office on that particular day. Candlemas, which is the anniversary of the Purification of the Virgin, obtained its popular name from churches and chaples being brilliantly lighted up with tapers, and from tapers and candles being hiessed by the priest, on that day. It may here be observed that the word Mass, about the etymology of which there have been so many conjectures, is of Gothic origin; and that, in its primary meaning, it is nearly synonymous with the word Mess, as still used in the navy to signify a community of persons who take their meals together. The Latin word Communito, and the Saxon word Houseling, are suggestive of the same idea as the word Mass. This brings us in regular concatenation to the "Kermes"—the Kirk or Cburch-Mass of the Dutch and Flemings, which is identical in its origin with the English Wake or Feast. is identical in its origin with the English Wake or Feast.

Of the Dutch and Flemish Kermes it is not our intention here to speak, further than it may serve to illustrate the origin of the English Wake or Feast. The Kermes is a kind of fair, which some attend for business, some for pleasure, and others for the sake of hoth. It ohtained its name, Kermes—Kirk—mass, Church—mass—in consequence of its being originally held on the anniversary of the saint to whom the village or parish church was dedicated. The term "Kirk," which has erroneously heen snpposed to be derived from two Greek words, which has erroneously neen supposed to be derived from two creek words, wupono inco-the House of the Lord-originally signified, with people of both Gothic and Celtic origin, a circle, a word which, in fact, is derived from the same root; and as their places of worship were usually Kirks, or Circles, of stones, the same term continued to be used to signify a place of worship after their conversion to Christianity. The Latin advert circum (Kirk-um) is formed from the same root; and lits component parts express the same idea as the English word "round-about"—Kirk, Celtic, a round or ring, and um, German,

about.

The institution of the English Wake or Feast was in its origin precisely the same as the Dutch and Flemish Kermes; it was a festival held in commemora-tion of the saint to whom the parish church was dedicated. The difference in the nonof the saint to whom the parish church was concised. The difference in the names given to it—Wake and Feast—originated merely from the circumstance of the commemoration heing chiefly observed in some places on the Wake, Vigil, or day preceding the saint's day, and in others on the day itself. Though this be the real origin of the Village Wake or Feast, yet, in later times, the day was not unfrequently changed for various reasons; such as its happening in the time of hay-making or of harvest, when its celebration might interfere with labours which could not be conveniently postponed; from its bappening immediately hefore or after the Wake of an adjacent parish; or quadrunque alia ratione—"for any other reason wby." Such is the origin of our Village Wakes and Feasts, which in the progress of society are gradually becoming obsolete.

which in the progress of society are gradually becoming obsolete.

It was in large country parishes that Wakes and Feasts were negulied to attend the parish chares were required to attend the parish church, the same as at Christmas and Easter, there was, consequently, a great assemblage in the village where such church happened to be situated; and as the original institution partook more of the anniversary of a jovial roof-raising than of a day of mortification, the natural consequence was that those nominal Wakes and Feasts became Feasts indeed. On those occasions the inhahitants of the "church town" were in duty, or in interest, bound to entertain their relations, friends, and customers who lived at a distance. At such times every "responsible" man in the village made provision for a crowd of visitors; and even those whom he was most slightly acquainted with, from having rnbhed shonlders with them at a fair, were allowed, or risther privileged, on the Feast-day, to partake of his hospitality. When on such occasions the tailor or the weaver gave beef, bread, and a cupof ale of a fortnight old to the shepherd who had looked after his skep of bees on the distant common, he was merely re-paying an obligation. The smith, as a matter of course, was bound to entertain every man in the parish who kept a horse.

Phillp Stubbes, in his "Anatomic of Abness," thus speaks of Wakes and Feasts,

Philip Stubbes, in his "Anatomie of Abases," thus speaks of Wakes and Feasts at the time of the publication of his book, 1583:—

at the time of the publication of his book, 1583:—

"This is their order therein; every town, parlsh, and village, some at one time of the year, some at another (but so that every one keep his proper day assigned and appropriate day to itself, which they call their Wake-day), useth to make great preparation and ordenance for good cheer. To the which all their friends and kinsfolks, far and near, are invited; where is such gluttony, such drunkenness, such saturity and impletion used as the like was never seen. In so much as the poor men who bear the charges of these Feasts and Wakes are the poorer and keep the worser honses a long time after. And no marvel; for msny spend more at one of these Wakes than in all the whole year besides. This makes many a man to thripple and pinch, to run into debt and danger, and finally brings many a one to ntter ruin and decay." To the query "From whence sprang these Feasts and Wakes," the author, who was ntterly averse to all the institutions of the old Church, and greatly inclined to consider them as Pagan relics, answers as Feasts and Wakes," the author, who was ntterly averse to all the institutions of the old Church, and greatly inclined to consider them as Pagan relics, answers as follows:—"I cannot tell, except from the Pagans and Heathen people, who, when they were assembled together, and had offered sacrifices to their wooden gods and blockish Idols, made feasts and banquest together before them, in hononr and reverence of them, and so appointed the same yearly to be observed in memorial of them for ever. But whencesoever they had their exordium, certain it is that the devil was the father of them, to drown us in perdition and destruction of body and soul; which God forefend."

Wakes and Feasts were not exclusively devoted to eating and drinking; but were also celebrated with sports and pastimes. There was dancing to the pipe and tabor from morn till eve; and after dinner, when the spirits of the champions had been stimulated by beef and bread, and cakes and ale, the wrestling and the cudgel play commenced. The prize for the wrestling was frequently a ram. The miller, in Chancer's "Canterbury Tales," seems to have been a frequent victor in those contests :

The Miller was a stout carl for the nones, Ful higge he was of braun, and eke of bones; That proved well, for over all ther he came, At wrastling he would bear away the ram.

Millers, when they take to the sport, usually prove good wrestlers. One of the most celebrated of the Cumberland wrestlers, recorded in "Litt's Wrestliana," was a miller; and his skill in laying men on their back is said to have been chiefly derived from his practice of litting sacks of flour.

What were called Church Ales appear to have been very nearly allled to

What were called Church Ales appear to have been very nearly allled to Wakes and Feasts. Whatever might have been their original institution, they seem to have been held for the exclusive benefit of the Church. "The manner of them," says Philip Stubbes, "is thus: in certain towns where drunken Bacchus beara_the sway, against Christmas and Easter, Whitsunday or some other time, the Church-wardens (for so they call them) of every parisb, with the consent of the whole parish, provide half-a-score or twenty quarters of malt, whereof aome they bny of the church stock, and some is given them of the parishloners

themselves, every one conferring somewhat, according to his ability; which malt being made into very strong ale or heer, is set to sale, either in the church, or some other place assigned to that purpose. Then when this Nippitatum, this Huff-cap (as they call it), and this nectar of life, is set abroach, well is he that can get the soonest to it, and spend the most at it, for he that sitteth the closest to it and spends the most at it, he is counted the godliest man of all the rest, and most in Godl's favour, hecause it is spent upon his Church forsooth: but who either for want can not, or otherwise will not stick to it, he is counted one destitute hoth of virtue and godliness. In so mnch, as yon shall have many poor men make hard sbift for money to spend thereat. And good reason, for being put into this Corban, they are persuaded it is meretorious, and a good service to God. In this kind of practice they continue six weeks, a quarter of a year, yea, half a year together, swilling and gulling night and day, till they he as drunk as rats, and as hlockish as heasts." The pretext for holding those Church Ales was, to obtain money for the repsir of the church, to huy service-books, cups for the celebration of the sacrament, surplices for the parson, and such other necessaries. "But," says Stuhhes, "who seeth not that they hestow this money upon nothing less than in huilding and repairing of churches and oratories? For in most places lie they not like swine-cots (pig-styes)? Their windows rent, their doors broken, their walls fallen down, their roof all hare, and what not, out of order? Who seeth not the hook of God, rent, rsgged, and all betorn, covered in dnst, so as this epitaph may he writ with one's finger npon it, Ecce nunc in pulcere dornic—'Behold, I sleep in dust!"

Falas—like Wakes, Feasts, and Law-days—were, in former times, nasully appointed to he held on the sacrament and there is reason.

so as this epitaph may be writ with one's finger npon it, Ecce nunc in pulvere dormio—'Behold, I sleep in dust!'

Faisa—like Wakes, Feasts, and Law-days—were, in former times, nsually appointed to he held on the anniversary of some saint; and there is reason to believe that in many places, which in course of time had increased from small villages to considerable towns, the Wake or Feast was the origin of the customary fair. Fairs are of great antiquity; and it has been conjectured that, in the southern provinces of France, where we first find them expressly mentioned, they were merely a continuation of the nundines, or periodical markets of the Romans. Sidonius Apollinaris, Bishop of Clermont, who died in 488, speaks of a fair, in one of his epistles addressed to the Bishop of Troyes. During the period of the Crusades, the principal Continental fairs, more especially in France, became of more importance than in former times, both from the number of pilgrims and fighting men who were accustomed to take them on their way to the Holy Land, and from the increased commerce of Europe with the East consequent on those expeditions. As marts for general traffic, the great European falrs, such as those of Troyes, Rheims, Bruges, and Ghent, hegan to decline from about the latter end of the fifteenth century. At these fairs the Merchant Princes of Italy had their factors, who not only hought and sold on account of their principals, but also acted as hankers, discharging hills of exchange drawn at distant places, and there made payahle, and granting others to merchants, who, having disposed of their goods, were either returning homewards, or proceeding, for the purpose of making purchases, to some other fair. In England, at a time when it was unlawful to export the coin of the realm, a merchant intending to wist one of the great Continental fairs, provided himself with a hill of exchange, drawn by an Italian factor upon another agent of his own firm attending the bill always paid the money for it, in the first instance, to delivered.

When we first hear of Fairs of considerable importance in this country, they when we are hear of rears of considerante importance in this country, they were held either by a Royal grant or through ancient custom; and the profits arising from the tolls and the standings were usually enjoyed either by the feture of some neighbouring monastery. As boroughs began to be incorporated, the right of holding fairs, and of enjoying the customary profits, was usually confirmed to the burgesses by charter. To each considerable fair there was attached right of holding fairs, and of enjoying the customary profits, was usually confirmed to the burgesses by charter. To each considerable fair there was attached a court of pie-poudre, for the prompt settlement of such disputes as might occur during its continuance. In the reign of Edward IV. au act was passed to prevent encroachments of the courts of pie-poudre, "which," says Barrington, in his "Observations on the more Ancient Statutes," "like most other courts, wanted to extend its jurisdiction, or, in other terms, the profits arising from it. As these lowest of courts of Justice were under the direction of the steward, by way of drawing every litigation to his own court, supposed, by an ingenions fiction, that parties who never made any contract at the fair, the steward, by way of drawing every litigation to his own court, supposed, by an ingenions fiction, that parties than the profits are supposed to have a great distance, had made the bargain in dispute within the limits of his jurisdiction, and, by this means, claimed conusance of the suit." The term pie-poudre (pied poudreux) literally signifies "dusty foot;" and it is supposed to have been given to the court in question, in consequence of the dusty feet of the suitors. It may, however, he observed that "dusty-foot" was an old name for a pediar; and thore is reason to believe that the same class of people were called pieds-pouldreux in old French, before such courts were instituted, or at least before they had acquired their distinctive name. If this opinion be correct, the pediar, or travelling merchant, was a "dnsty-foot," and the Court of Pie-poudre, a pediar's court. In the middle ages, the principal letter-carriers were traders attending fairs, and pilgrims visiting shrines, holy wells, or other places supposed to enjoy the special favour of some saint. In the 15th century pligrimages were fashionable; and in those days a visit to the shrine of Saint Thomas à Becket, at Canterbury, or to the Chapel of Our Lady at Walsingham, was not much unlike a tri

about the middle of the last century.

In former times, it was at fairs that the monks purchased many of the commodities which they required; and as they were also extensive landowners, it was on such occasions that they usually sold the produce of their farms, more especially their wool. Before the establishment of a fair and market at Hull, the Abbot of Meux or Melsa, in Holderness, appears to have attended Boston Fair. In the latter part of the reign of Henry III, the Abbot of Melsa was charged with having unlawfully sold, at Boston Fair, one hundred and twenty-nine sacks of wool to foreign merchants, at a time when the exportation of wool was forbidden to such merchants, in consequence of a dispute between the King of England and the Countess of Flanders. Even the cannon of Bolton Abbey, in the retired vale of Wharfe, were accustomed to make purchases of wine, clotb, and other articles, at Boston Fair. This fair, and also that of Stourbridge, appear to have been attended by manufacturers of woolen cloth from the distant town of Kendal, who at Boston Fair. This fair, and also that of Stourbridge, appear to have been attended by manufacturers of woollen cloth from the distant town of Kendal, who, after disposing of their goods, invested the proceeds in the purchase of various articles which either might be required in their own neighborhood, or which might be likely to meet with a ready sale in the course of their jonrney homeward. Travelling merchants, in their progress to a distant fair, frequently received commissions at the abbeys and castles where they were accustomed to call, to make purchases on account of the owners and their dependants.

In the mythology of Greece and Rome, Apollo, typified as the Sun, was the great ruler of the year, and the personified seasons $(\delta \rho a_i, \text{Horrs})$ were his attendants. In the cut (on page 58) he has twelve attendants, the personified hours of the artificial day.

HINTS FOR THE TABLE.

BY M. SOYER.

Amongst all the tribulations of the table, carving is not the least of them. "If you should, unbappily, be forced to carve at table," says Launcelot Sturgeon, in his "Essays, Moral, Philosophical, and Stomachie," "neither labour at the joint until you put yourself into a heat, nor make sucb desperate efforts to dissect it as may pnt your neighbours in fear of their lives; bowever, if any accident should happen, make no excuses, for they are only an acknowledgement of awkwardness." As an instance of this, we remember to have seen a man of high fashion deposit a turkey in this way on the lap of a lady; hut, with admirable composure, and without offering the slightest applogy, he finished a story which he was telling at the same time, and then, quietly turning to her, merely said, "Madam, I'll tbank you for that turkey!" My conscience will not allow me to swear to the authenticity of the fact; but, in the course of twelve months past, I have witnessed a very similar instance; only the party, not possessing the assurance of the fashionable above mentioned, did not continue the conversation, hut, in his nervous anxiety, endeavouring to replace it on the dish with vivacity, sent it rolling across the table to his right-hand neighbour; who, quickly perceiving the imminent danger in which he was placed, fortunately arrested its further progress with his fork. One hearty laugh of the remaining party terminated this scene of confusion. scene of confusion.

scene of confusion.

After a short consideration, I found, by a most simple rule, and with the greatest facility, that a bird that would take ten minutes to carro very badly, may be done well in two or three, by the most inexperienced person. From this process a number of advantages may be derived; first, you may eat your dinner much hotter; secondly, you can make eight or ten pieces of a fowl, or any other bird, where previously great difficulty was experienced in making five or six, and each person will thereby be enabled to choose a favourite piece; and a large bird—such as turkey, poularde, capon, &c.—will be fit to re-appear on your table in a very inviting state. I must also observe that the birds are not in the least disfigured; but, on the contrary, their appearance is much improved. Formerly, nothing was more difficult to carve than wild-fowl, the continual motion (when alive) of the wings and legs making the sinews almost as tough as wires, puzzling the best of carvers to separate them. My new method for small birds has quite abolished such a domestic tribulation, by separating, with a long pointed pair of scissors, the sinews which join the wing to the hreast, and also jointing the legs under the skin, as explained helow for larger birds. The separation of the joints may be easily effected; and having thus detached the four principal parts, the carving, when roasted, will be very simple. But for the jointing of turkeys, geese, capons, &c., the tendon separator, made by Bramah and Prestage, Piccadilly, will be found a happy relief to carvers. Its object is to relieve carvers, more or less proficient; and must become indispensable for the use of all cooks and poulterers in disjointing the volatile species, previous to trussing, roasting, or boiling.

The simplicity of the operation will easily convince any one that the tendon-

The simplicity of the operation will easily convince any one that the tendon-

The simplicity of the operation will easily convince any one that the tendonseparator possesses all that is required to remove awkwardness in carving, the
only necessity being to divide the tendons in the joints, the toughness of which is
the difficulty to be overcome, and often abandoned to make a desperate cnt at
the bones: hence arise the accidents above meutioned.

When about separating the tendons, and otherwise dividing other parts of a
fowl, yon begin hy turning the skin over the wings, and cutting the tendons of
each of the joints; and then, hy taking hold of the part commonly called the
drumstick with your left hand, and the skin being already turned, you cau easily
get at the joint, by making it come out, to cut the tendons of each leg. On turning the separator with the points upwards, you give a cut at the breast-bone;
and by holding the instrument with both hands, immediately after turning the
points downwards, you also give a cut at the back-bone; and then, the four tendons being cnt, the limbs are brought back to their former position. Then you
introduce the instrument into the body at the other end of the bird, and with
your left hand you take hold of the thigh-bone, which you also divide; and again
turning the point downwards, you give another cut at the back-bone. With little
practice, the cuts at the breast and back-bone are made without interfering in
the least with the skin. Theu you truss the bird in the common way; but a
packing-needle and thread are to be preferred. When roasted, the appearance of
the poultry is vastly improved hy this simple operation. It looks more plump,
on account of the sinews having lost their power of contraction whilst roasting;
therefore, when the bird comes to table, the carver has merely to pass the knife
in tho usual manner to take up the wings and legs, and finds no rosistance; the
same at the breast and back, where it may easily be seen, whilst carving, that it
has already heep prepared.

Three minntes is about the time taken, by this new process, to c has already heen prepared.

Three minntes is about the time taken, by this new process, to cut into ten

parts an ordinary fowl.

For a turkey or a goose the sinews are divided as above; and in the act of carving, instead of cutting the fillets in a straight line with the breast-bone, you separate them obliquely, and all other parts as usual.

Pheasants, ducks, and all wild fowl especially, must be prepared in a similar

manner

A hare or rabbit may also have the sinews and back-bone divided : to effect A hare or realout may also have the sinews and back-bone divided: to electifis, you lay the hare upon its back and give six cuts nearly through the back-bone, holding the separator with both hands, through the helly part; then you truss it for reasting. If it should happen to be a very large hare, the fillets only are carved, and they ought to be cut in thin slices in an oblique direction, instead of straight along the back.

straight along the back.

Respecting the carving of any description of joints, it may be more easily explained. For a saddle of mutton or lamh, proceed as follows:—Commence by passing your knife down the back, where nothing but the meat and skin holds it togetber, and from thence crosswise to the flap, serving a cutlet and a slice between to each person, continuing the same way through the saddle. You will thus carve the meat according to the grain, and produce fresh hot gravy for each person as you proceed carving. Should any remain, it is fit either to he sent cold to table, or dressed otherwise advantageously.

The saddle-back of mutton I prefer, is composed of the two loips and two necks.

to table, or dressed otherwise advantageously.

The saddle-back of mntton I prefer, is composed of the two loins and two uecks, trimmed into the form of a double saddle, without interfering in the least with the legs and shoulders, which would cause a serious loss to the butcher.

A round of beef, when upon the table, must be carved with a regular round of beef knife (very sharp), in silces not exceeding the thickness of a crown piece, assisting each guest to a slice: also, give one third fat, with a little of the carrot and turnip; but never dig the under-done part from the centre to oblige any one, for they that cannot eat from a joint well cooked and fairly carved, are not worthy of having one set before them. Some persons like them, when salted, to cut requite through. I do not admire it; but it is done by adding two ounces of sal prunella and halfa pound of saltpetre to every fifteen pounds of salt used in pickling. When a round of beef is very large, some persons place a tin tube in the centre to boil it. I do not think it a bad plan, as it causes it to cook more regularly.

Amongst the number of joints, boiled to serve cold at the large civic, agricultural or benevolent anniversary dinners, the round of beef is the most prominent, and commonly left standing in dishes to get cold, which are soon filled with the gravy that runs from it, particularly if a little over-done. To remedy this, the following expedient will prevent the meat losing so much of its succulence:—Fill two large tubs with cold water, into which throw a few pounds of rough ice; and when the round is doue, throw it, cloth and all, into one of the tubs of ice water; let it remain one minute, when take out and put it into the other tub: fill the first tub again with water, and continue the above process for about twenty minutes; then set it upon a dish, leaving the clot bo nutil the next day, or until quite cold. When opened, the fat will be as white as possible, besides having saved the whole of the gravy. If no ice, spring water will answer the same purpose, but will require to be more frequently changed. The same mode would be equally successful with

For the ribs or sirloin of beef, pass the knife between the chine-bone and the flesh, to about an inch in depth, but only to about the length you think sufficient to cut as many slices from as you may require: then, having a sharp knife, cut off the outside slice very thinly; hold your knife a little in a slanting direction, and continue cutting thin slices from the chine to the ends of the sirloin in the dish as you carve. If a slice from the fillet is required, turn it over with a couple of forks; carefully part some of the fat whole covers it, if too much: then cut short slices in a slanting direction, as if from the hreast of a fowl, instead of crosswise; for then, if clumsily carved and over-done, it has a strong resemblance to an

old strap. For a rump of beef, either roasted or stewed, always commence at the fattest end, carving in a slanting direction: by which means you will obtain a correct quantity of that delicate article, if even you should be carving for twenty people; whilst, by cutting straight across, some would have the greater proportion fat, and the remainder nothing but lean. Any other piece of beef rolled and stewed, and fillets of beef, as served for a remove, all require to be carved in a slanting direction.

and miers of beet, as acreed direction.

For a fillet of yeal, proceed in the same manner as directed for a round of heef.

A loin of yeal, if cut straight at the commeucement, is entirely spoiled; but when carved slantingly from the best end, and eaten with its own gravy, nothing could he nicer; the remainder is then also very good cold. Even the kidney ought to be served the same; and the breast, either roasted or stewed, requires the same style of carving.

the same style of carving.

For legs of mutton or lamb, I also proceed in a new way. For legs of mutton or lamb, I also proceed in a new way. The frill, which is placed upon the knnckle-bone, is not only intended to ornament the leg, hut likewise to enable you to hold the bone with your left hand, and carving with the right, which would wonderfully facilitate the operation. Instead of cutting across the middle, which opens all parts at once, thus losing a great deal of the succulence, I commence carving at about two inches from the knuckle, beginning with the heel of the knife, drawing it along to the point, cutting six or eight slices at once, more or less if required: then pass the knife beneath the whole, detaching them from the bone, thus helping each person quickly, and with very hot meat. The gravy remaining in the meat will keep it moistened, in good order for cold; whiist, in the general manner, you have nothing but dry meat, or if under-done, on purpose for cold, the meat will always have a black appearance. This is my way of carving at home; thut if objectionable to take the frill with the fingers, make use of the carving-fork. At home I never allow any gravy to be put into the dish, hut served separately, in a hoat; and if the meat is of good quality, and well roasted, it will snpply an abundance of good gravy. If for the table of the wealthy, commence carving the leg nearer to the centre, but always in a slanting direction.

in a slanting direction.

For shoulders of mutton or lamb to eat well and delicate, the fat and lean must be well mixed in serving; to accomplish which, the joint must be carved in a still imore slanting direction than the legs, also beginning rather nearer to the knuckle. For the necks and loins of mutton, never separate the bones of either with a chopper, or you will partially mutilate the meat, thus losing all the gravy in roasting, and frequently have great difficulty in carving; but separate the joints with a small saw, as neatly as possible, cutting in the direction you require to carve. For ribs of lamh, which should be properly prepared for carving hefore being roasted, having the centre of the bones broken, with the chine-hone detached, to carve, you must, of course, follow the bones, which run rather slantingly, belping each person to a cutlet from the neck, with a slice from the breast, but not cut too thick. By following this plan, each person will have partaken of the hreast, which, without contradiction, is the most delicate part (but which is most frequently left to be eaten when dry and cold); and if any remain, helng evenly carved, it will be very presentable at table the next day.

To carve a ham, proceed as directed for the carving of a leg of mutton, commencing two inches from the knuckle, cutting very thin and delicate slices, slanting more and more as you proceed, or you will have nothing but fat left at the extremity.

the extremity.

the extremity.

To carve au ox tongue, stick your fork into the root, and cut a thin slice off, placing the heel of the knife upon it, which draw along to the point, thus taking the slice off in one cut, leaving it npon the dish, and serving the inner slices, cut in the same manner, but very thin and delicate; you will thus have carved the best part of it easily, without disfiguring the whole, still having a decent piece remaining to send np cold; but if you had commenced in the middle, you would at once spoil the appearance, and the remainder would eat dry when cold.

Nothing is more creditable to a carver, than leaving a piece of either meat, game, or poultry fit to re-appear at table in an inviting state.

HAUNCH OF VENISON.

How to serve eighteen or twenty persons:—Take off the flat bone, previous to roasting, at the back of the loin, and pass the knife from the knuckle all along the lower part of the flap, which is left about two inches wide; then begin to cut in a slanting direction from the beginning of the loin, through the leg as far as the knuckle, without reserving a well for the gravy, and, in fact, it is better, as the knuckle, without reserving a well for the gravy, and, in fact, it is better, as every slice you cut through the leg produces its own gravy, boiling hot, which unavoidably gets cold in the well formed the other way of carving. Do not omit to save some fat for the next day, as your hash or pie would be insipid without. Haunch of mutton or lamb may be carved either way.

For necks of venison, pass your knife across the lower part of the ribs, about four inches below the thickest part: then cut slices in a slanting direction, not interfering with the bone, as previously explained for shoulders of mutton.

Never let your guests sit down to table without acquainting them beforehand with the bill of few the in if the direct he according one because the great.

with the bill of fare, that is, if the dinner be a ceremonions one, because the great variation placed on the table is to give a choice to the different taste of the comvariation placed on the table is to give a choice to the different taste of the company. By selecting a few favourite dishes, digestion is rendered more easy, being then aided by the fancy of each individual: but should you be helped of a dish which does not meet with your approval, though, at the same time, you feel yourself constrained by politeness to eat of it, your dinner is spoiled, and you do no justice to the bountiful supply of your Ampbytrion.

In domestic cookery, it is necessary to know, that however humble the means

of the individual may be, the food should be varied daily, if possible. Never dine two days on the same joint, without dressing it each day in a different monner. A plain joint, hot one day, may be served cold the next, particularly in summer—it is then excusable; but, by all means, the third day make a harb, as fullows

-Cut about a pound and a balf of meat iuto thin slices, using a small quantity of fat; lay them upon a dish, sprinkle a spoonful of flour, a teaspoonful of salt, and a quarter ditto of pepper; place the meat in a stewpan, moisten with half a pint of water, or light broth if hand; add a little colouring to give it a nice brown colour. Place it npon the fire, allowing it to warm gently, to give it a nice brown colour. Place it upon the fire, allowing it to warm gently, stirring occasionally, simmering a quarter of an hour. Taste it more seasouing be required; if so, add a little, and serve very hot immediately. In making hash of any description, avoid having the keeping of it hot, or it would become greasy; and likewise prevent the hash boiling over the fire, which would cause the meat to eat bard and tough. To vary any description of hash, it may be served upon a large piece of buttered toasr, or half a spoonful of chopped onions may be added with the flour and seasooing. Chopped parsley may also be added, with a spoonful of catsup, two of Harvey sauce, two of vinegar, or one of Chili vinegar: four nice green gherkins, in slices, may also be added at the time of serving. Some fresh musbrooms from the fields, cleaned, and stewed in the hash, Is also a great improvement. A bay leaf also added imparts a in the hash, is also a great improvement. A bay leaf also added imparts a

TO MAKE COFFEE ECONOMICALLY.

Bny your coffee not over-burnt; grind it at home, if possible; have a middlesized filter, which holds a little more than a quart; pour about a pint of boiling water into the filter to heat it through, then empty it, and put a quarter of a bound of ground coffee on the filter; then put on the presser, and lastly the grating; then pour about half a pint of quite boiling water over it, put the cover on, and let it drain through. After three or four minutes, pour, by degrees, a pint and a half more boiling water, and, when well passed through, pour it from the filter into a very clean stewpan; set it on the corner of the fire; and, when a little white scum rises to the surface (not letting it boil), pour it a second time over the filter, and, when passed through, pour cither into a silver cafetière or the cnps. Serve boiling milk or cream in two small jugs; and white, or brown, or candled sugar. As soon as the coffee is poured from the coffee pot, I put another quart of boiling water over it. This saves one ounce of coffee, by boiling it inatead of water, and pouring it over as before.

TO MAKE A COLOURING OR BROWNING FROM SUGAR.

Put two ounces of white powdered sugar into a middling-sized stewpan, which place over a slow fire; when beginning to melt, stir round with a wooden spoon until getting quite black; when set it in a moderate oven, upon a trivet, for about twenty minntes; ponr a pint of cold water over, let dissolve, place in a bottle and use when required.

and use when required.

Never put salt, mustard, or any kind of sauces on your plate, without having previously tasted your food. It is not only a great breach of politeness towards your host, but an insult to the cultinary artist; because that which is placed on the table as a made dish, is supposed to be seasoned to perfection. But, as very often this is not the case, then, after you have tasted it, you are at liberty to sait your own palate, which part of the human frame is as varied as the physicarrony.

When you help at table never give more than two or three slices of meat, cut thin. Carve everything in a slanting direction. A good carver ought never to ask if any person likes their meat well done or underdone, as you disfigure the joint at once: such fancies cannot be tolerated, except at the tables of the wealtby; for the million, it is a waste of £70 a year, when only seven or eight

Have your vegetables, no matter how plainly dressed, always well done; the crudity of such aliments is nuwholesome, and apt to destroy the coating of the stomach, that being the most delicate part of the digestive organs. Be also contented with one sort of vegetable on your plate at a time, potatoes excepted.

The greatest compliment a guest can pay to his host, is to ask to be served a second time of the aame disb, though not above half the quantity first served should be given.

If by chance you should spill any sauce or gravy in carving, do not apologise; is only calling the attention of the company to your awkwardness, which, without remark, might pass unnoticed.

Never cut np a fowl, or any kind of bird, at once, without knowing how many persons are going to partake of it: the proper manner is to ask each person, and

then to help them separately.

Never remove any dish which has been placed on the table by a servant, however awkwardly it may be set. It is not your business to serve at your own table; rather let your servant look awkward than yourself, by his placing it over

and over again before it is right.

Never press any one to take more food or wine than they appear to wish; it anuoys your guests, and, whilst you make yourself too cheap, you also make it too common.

Never put more than one wine-glass before each guest at the commencement of dinner; have the others ready, and place them as required. It saves contusion; and often relieves a person from great distress, who, by chance, may not be acquainted with the different glasses which each sort of wine requires.

ON THE MANAGEMENT OF WARD'S CASES FOR THE GROWTH OF FERNS, &c.

GROWTH OF FERNS, &c.

It is often asked, what are the best species of Fern, &c., to form a lasting, graceful, and effective group for those elegant little cases now so frequently seen in the windows of most houses? To this we reply, that the following arrangements will produce all that can be desired:—For the centre, a Chamarops humilis, the dwarf palm of the South of Europe; covering the ground at the base of its stem are the delicate and beautiful little ferns, Hunenophyllum Tunbrigense and H. Wilsoni; while Adiantum capillus-venerie, A. formosum, Asplenium marinum, Pteris longifolia, Scolopendrium vulyare, Aneimia fraxinifolia, Cassebeeria hastata, and the beantiful Trichomanes speciosa are other forms of ferns whose variously-shaped fronds contrast well with one another. Under the shadow of the ferus, several Jungermannier grow havuriantly; and the Oxalis acetosella thrives wonderfully in the company of its cryptogramic neighbours, while Lucapodium, denticum, ully in the company of its cryptogamic neighbours, while Lycopodium denticula-tum and L. stoloniferum surround the whole with a perennial hedge of verdure. Besides these, Maxillaria rufescens, an epiphytical orchid, has attached itself to the rough hark of a piece of suspended elder branch; and, in order that no space may remain nnemployed, the husk of a cocoa-nut has been filled with earth, and hung in the dome at the too, and from this may be seen descending the graceful

fronds of various pendinious ferns and lycopodinms.

When the case is smull and close, a single watering at the time of setting the plants will g merally be sufficient for niue or twelve months, or even longer. When the case is large, however, a freer application of water will be necessary.

GENERAL POSTAL REGULATIONS, &c.

RATES OF POSTAGE.—All letters from one part of Great Britain to another (including the Local Penny Posts and the London Twopenny Post) are charged, if prepaid, and not

Exceeding half an ounce Exceeding balf an ounce, and not exceeding one ounce .. 2d.

and so on, at the rate of 2d. for every additional ounce or fraction of an ounce. Unpaid and unstamped letters are charged double postage on delivery.

Hours of Posting for the Evening Malls.—The Receiving-Houses close at 5–30 p.m.; but letters are received for the evening's dispatch until 6 p.m., if an extra penny stamp is affixed. The Branch Post-offices at Charing Cross, Old Cavendish-street, and 108, Blackman-street, Southwark, receive letters until 6 p.m., and until ½ to 7 p.m. by affixing an additional penny stamp. At the Branch Post-Office in Lombard-street, the box remains open without additional fee until 6 p.m., and until 7 p.m. by affixing a penny stamp. At the General Post-Office in St. Martin's-le-Grand until 6, free; and until 7, by payment of the extra cluarge as at Lombard-street. From 7 to half-past 7 p.m., letters may be posted at the General Post-office upon payment of a fee of sixpence each, which must, as well as the postage, be pre-paid. Letters intended to pass by outward mails to foreign parts must be posted at the above hours.—N.B. Newspapers for the evening mails must be put into the Receiving-Houses before 5 p.m., the Branch offices before 5 30, or General Post-Office and Branch Offices before 6 p.m., and at the Receiving-Houses before 5 p.m., and at the Receiving-Houses before 5 p.m., and at the Receiving-Houses before 5 p.m., and at the Receiving-Houses before 5 p.m., and at the Receiving-Houses before 5 p.m., and at the Receiving-Houses before 5 p.m. HOURS OF POSTING FOR THE EVENING MAILS.—The Receiving-Houses close at

Moanne Malls are forwarded to most of the principal towns in England and Wales, and to all parts of Ireland and Scotland, for which the letter-boxes at the Receiving-Houses will be open till 7 a.m. for newspapers, and ½ to 8 a.m. for letters; and at the Branch Offices, Charing-cross, Old Cavendish-street, and the Borough, for newspapers until half-past 7 a.m., and for letters until 8 a.m. At the General Post-Office and the Branch Office in Lombard-street, the boxes will be seen the property of the propert close for newspapers at a quarter before 8 A.M., and for letters at balf-past 8 A.M.

Any Single Book of Pamphlet can now be sent through the Post-Office to any part of the United Kingdom if not exceeding 16 oz. in weight, and open at both ends, by affixing six postage stamps; if above 16 oz. 1s., and 6d. for every additional pound or fraction of a pound. The Postmaster-General does not guarantee the delivery of books and pamphlets with the same accuracy and regularity as newspapers and letters, but in no case will the delivery be delayed more than 24 hours after the usual post. than 24 hours after the usual post.

British and Colonial Papers between British Colonies, without passing through the United Kingdom, to be free; except that ld. may be allowed as a gratuity to the master of the vessel conveying them.

Newspapeas, Baitish, Foreign, or Colonial, passing between British or Colonial and Foreign Ports, and through the British post, to pay 2d.; if not through the British post, 1d.

NEW POSTAGE STAMPS intended principally for the pre-payment of foreign letters have been issued. They are of the value of one shilling each, the colour being green, and the form octagonal, to distinguish them easily from the smaller denomination of postage stamps at present in use. These stamps may be used for inlaud as well as foreign postage, but they are chiefly intended for the postage of letters to the United States, India, China, the West Indies, New South Wales, New Zealand, and other places to which the postage is one shilling.

Packages which in length, breadth, or width exceed twenty-four inches, cannot be forwarded by post between any places within the United Kingdom; except, however, petitions or addressea to her Majesty, or petitions to either House of Parliament forwarded to any Member of either House, or printed votes or proceedings of Parliament, or letters to or from any Government inflices or departments.

-With a view to simplicity and economy in the accounts MONEY ORDERS. the Money Order Office, it has been found necessary to lay down the following rules:—1. Every money order issued on or after the 6th October, 1848, must be rules:—1. Every money order issued on or after the 6th October, 184s, must be presented for payment before the end of the second calendar month after that in which it was issued (for Instance, if issued in October, it must be presented for payment before the end of December), otherwise a new order will be necessary, for which a second commission must be paid. 2. As already notified to the public, if an order be not presented for payment before the end of the twelfth calendar month after that in which it was issued (for instance, if issued in October and not presented before the end of the next October), the money will not be paid at all. 3. As, after once paying a money order, by whomsoever presented, the office will not be liable to any further claim, the public are strictly cautioned a. To take all means to prevent the loss of the money order. b. Never to send a money order in the same letter with the information required on payment thereof. c. To be careful, on taking out a money order, to state correctly the Christian name as well as the surname of the person in whose favour it is to be drawn. d To see that the name, address, and occupation of the person taking out the money order are correctly known to the person in whose to be drawn. A to see that the maine, and essess, and occupation of the person favores are correctly known to the person in whose favour it is drawo. 4. Neglect of these instructions will lead to delay and trouble in obtaining payment, and even risk the loss of the money. These instructions, together with some others of minor importance, will be found printed on every money order.

THE LAW OF BANKRUPTCY.

The new Act of Parliament to empower the Commissioners of the Court of Bankruptcy to order the release of bankrupts from prison in certain cases, which took effect on the 31st of August, 1848, has just been printed (11 and 12 Victoria, cap. 86). By this act it is provided that where any person has been adjudged bankrupt, and has surrendered to the fiat, and has obtained his protection from arrest, pursuant to the practice in bankruptcy, if such person shall be in prison at the time of obtaining such protection, any Commissioner acting under such flat may order his immediate release frim prison, either absolutely, or upon such condition as such Commissioner shall think fit, which release is not to affect the rights of creditors detaining him in prison. The second clause is an important one:—"And be it enacted that if any bankrupt whose last examination shall have been adjourned sine die, or whose certificate shall have been suspended or refused, shall be in execution, or be taken in execution, under a capias ad satisfaciendum at the snit of any creditor who might The new Act of Parliament to empower the Commissioners of the Court smail have been suspended or refused, shall be in execution, or be taken in execution, under a capias ad satisfaciendum at the snit of any creditor who might have proved under the flat and detained to prison, any Commissioner acting nuder his flat may order his release, after he shall have undergone such term of imprisonment, not exceeding two years, as to such commissioner may seem a sufficient puoishment for such offence as he may appear to such Commissioner to have been guilty of."

THE QUEEN AND ROYAL FAMILY.

THE QUEEN.—VICTORIA, of the United Kingdom of Great Britain and Ireland Queen, Defender of the Faith, was born May 24th, 1819; succeeded to the throne, June 29th, 1837, on the death of her uncle, King William IV.; crowned, June 29th, 1838, and married, February 10th, 1840, to his Royal Highness Prince Albert. Her Majesty is the only daughter of his late Royal Highness Edward Duke of Kent, son of King George III.

His Royal Highness Francis Albert Augustus Charles Emauuel Busicl, Duke of Sake, Prince of Corurg and Gotha, K.G., Cousort of her Majesty, born August 26th 1819.

Argust 26th, 1819.

Her Royal Highness Victorla Adelaide Mary Louisa, Princess Royal, born November 21st, 1840.

His Royal Highness Albert Edward, Prince of Wales, born November 9th, 1841.

HIS ROYAL Highness Allice Maud, born April 25th, 1843.
His Royal Highness Alfred Ernest Albert, born August 6th, 1844.
Her Royal Highness Princess Helena Augusta Victoria, born May 25, 1846.
Her Royal Highness Princess Louisa Caroliua Alberta, born May 25, 1846.
Her Royal Highness Princess Louisa Caroliua Alberta, born March 18, 1848.
THE QUEEN DOWAGER.—Amelia Adelaide Lonisa Theresa, sister to the reigning Duke of Saxe Meiningen, born August 13th, 1792; married July 11th, 1818; crowned September 8th, 1831.

PRINCES AND PRINCESSES.

Ernest Augustus, Dure of Cumberlann, in Great Britain, and King of Hanover, mucle to her Majesty, born June 5th, 1771, married, August 29th, 1815. Issue, George Frederick.

Issue, George Frederick.

Adolphus Frederick, Duke of Cameridoe, uncle to her Majesty, born February 24th, 1774; married, May 2nd, 1818, her Serene Highness Augusta Wilhelmina Louisa, youngest danghter of Frederick, Landgrave of Hesse. Issue, three children, Mary, Auut to her Majesty, born April 25th, 1776; married, July 22nd, 1816, her cousin, the Duke of Gloucester, deceased.

Victoria Mary Louisa, Duchess of Kent, born Angust 17th, 1786; married, in 1818, the Duke of Kent (who died January 23rd, 1820); her Majesty's mother. Augusta Wilhelmina Louisa, Duchess of Camering, in 1818, the Duke of Kent, 1795; married, in 1818, the Duke of Cambridge, by whom she has issue, George William, Angusta Caroline, and Mary Adelaide.

George Frederick Alexander Charles Ernest Augustus, K.G., only child of the King of Hanover, Prince Royal of Hanover, consin to her Majesty; born May 27th, 1819; married, February, 1843, Princess Mary of Saxe Altenberg, and has a son.

has a son.
George Frederick William Charles, K.G., son of the Duke of Cambridge, cousin to her Majesty, born March 26th, 1819.
Augusta Caroline Charlotte Elizabeth Mary Sophia Louisa, daughter of the Duke of Cambridge, and cousin to her Majesty, born July 19th, 1822; married, June 28th, 1843, Frederick, Hereditary Grand Duke of Mecklonburg Strelitz.
Mary Adelaide Wilhelmina Elizabeth, daughter of the Duke of Cambridge, and cousin to her Majesty, born November 27th, 1832.

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Surgeon, James M'Ternan
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Elected September 29th—Sworn in November 9th.

The Right Honourable Sir James Duke, M.P., Farringdon Without, 1840.

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Elected 24th June-Sworn in 28th September. Thomas Quested Finnis, Eq. | Jacob Emanuel Goodhart, Esq. UNDER SHERIFFS.

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Newwastle, N. Flijson, Esq. Newcastle, N. Ellison, Esq.

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Austria.—Embassy, 7, Chandos-stleet, Cavendish-square, between 12 and 2. Beloium.—Legation, 9 A, Weymouth-street, Portland-place, between 11 and 3; delivered next day between 11 and 2, gratis; at the Consul's office, between 10

delivered next day between 11 and 2, gratis; at the Consul's office, between 10 and 4—fee 5s.

BAVARIA.—The Minister, 3, Hill-street, Berkeley-square, when personally known to him; or at the Consul Office.

BAAZIL.—Legation, 10, York-place, Portman-square, between 12 and 2, gratis.

DENMARK.—6, Warnford-court, between 10 and 4—fee 10s. 6d.

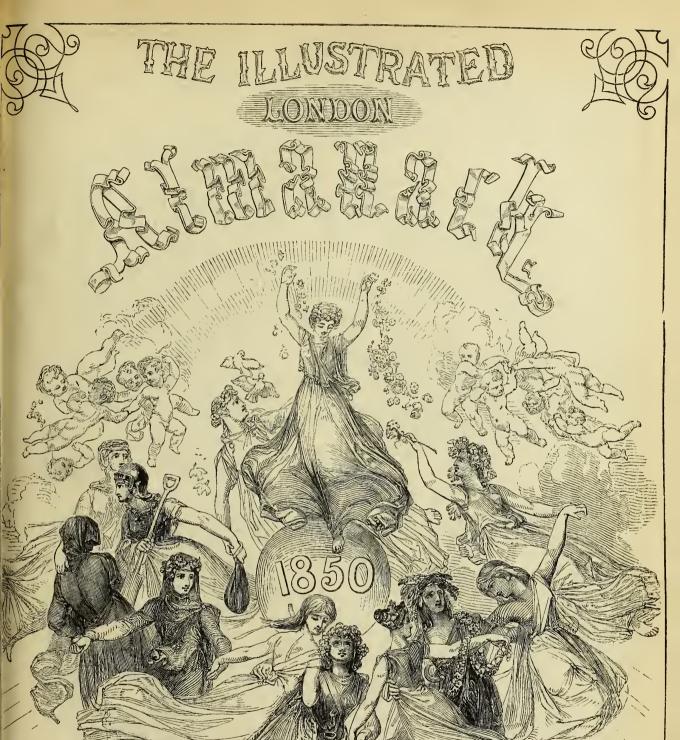
FRANCE.—French passport-office, 6, Poland-street, Oxford-street, from 11 to 5; delivered next day between 1 and 3, on personal application, gratis; also at the Consul's office, between 12 and 4—fee 10s.

NAFLES AND SICILY.—Passport-office, 2, Old Cavendish-street, Mondays and Thursdays, between 10 and 1; delivered following day between 2 and 3, gratis; for persons going by sca, Consul's office, between 10 and 12—fee 10s.

PORTFOAL.—Embassy, 57, Upper Seymour-street, Bryanstone-square, between 11 and 4, delivered following day; also at Consul's office.

PRUSSIA.—106, Fenchurch-street, between 10 and 6—fee 7s.

RUSSIA.—9, Winchester-bnildings, between 10 and 4; delivered following day—fee 6s. 4d.



LONDON

PUBLISHED AT THE OFFICE OF THE ILLUSTRATED LONDON NEWS,

198, STRAND.

INTRODUCTION.

THE FIRST ILLUSTRATED LONDON ALMANACK was published for the year 1845, and it has appeared annually since that time.

All those divisions of the Almanack for 1846, relating to the Calendar, to Astronomy, and to Science in general, were entrusted to James Glaisher, Esc., F.R.S., F.R.A.S., of the Royal Observatory at Greenwich, and all relating to these subjects, since that time, have been under his superintendence.

The Notes on the Month, on the fourth page of every Month, are by Mrs. Loudon.

It is thought better to give additional information each year than to repeat Tables or Particulars which are the same for several years together; therefore, for explanations. &c., we refer to preceding Almanacks. In this Almanack, at page 52 will be found a very useful Table, shewing the time of the Sun's rising and setting, and the length of the day at all places in Great Britain and Ireland, for every 10th day of the year; and at page 54 will be found a clear description of the heavens, by which means the names of the Stars, &c. may very readily be learned. Both these tables will answer for several years.

ON THE METEOROLOGY OF ENGLAND.

The geographical position of England being distant both from the Equator and the Pole, together with the circumstance of being an Island situated with the great European continent on the east, open to extensive oceans ou the south-west, the west, and the north, and noder the influence of the great cold from the north—all operate to cause the weather to be more variable than in countries on the Continent. In England, in fact, the effects of distant phenomena are registered frequently; and without a well-combined system of unlform observations, extending over the surface of the globe, and deduction of heir results, we cannot hope to trace the source of many recorded phenomena, and, in fact, of none except those only of a local nature.

The ever-varying state of the weather of Great Britain has led to much indivioual enquiry; but it has falled to receive that combination of labour and that support which is necessary even to the determining the source to which local disturbances may be traced, and the extent of local laws. Yet, when we consider its practical importance to the physician, to the agriculturist, to the navigator—in fact, to all classes of persons—it seems somewhat strange that Meteorology has met with this neglect.

Meteorology has met with this neglect.

On the state of the atmosphere, combined in various ways with local circumstances, epidemic complaints seem to depend; and it is highly probable that the present epidemic of cholera is mainly attributable to the peculiarities of the atmosphere which have lately been prevalent, combined with local circumstances. For render our Almanack the most generally useful, we have been anxious to collect the meteorological particulars to the present time, including those when o particular disease existed, as we know that many medical gentlemen, and others, are desirous to elucidate the connexion which may have existed between this disease and the weather.

The following meteorological particulars, derived from the published volumes

The following meteoro ogical particulars, derived from the published volumes of the Greenwich observations, and from the meteorological reports turnished by the Astronomer Royal to the Registrar-General, will not only be useful for this and other similar investigations, but will exhibit the full particulars of an Eughsh vear:—

MEAN MONTHLY READING OF THE BAROMETER AT GREENWICH.

				YEARS.							
Months.	1841. 1842. 184		1843.	1844. 1845.		t316.	1847.	1848.	1849.		
				In.	In.	In.	In.	In.	In.		
					29.704	29 671	29.768	29.816	29.771		
February .	29.697	29.876	29.473	29.498	29.840	29.849	29.782	29.5t7	30.106		
March	29.784	29 747	29 758	29.710	29.795	29.655	29 882	29 505	29 915		
April	29 731	29.914	29 687	30.000	29 696	29.589	29.653	29.589	29 517		
May	29.731	29.782	29.664	29.945	29.712	29.779	29 764	29 926	29 766		
June	29.801	29.901	29 700	29 814	29 775	29 866	29.805	29 642	29.868		
July	29 716	29.820	29.826	29.753	29 769	29 757	29 924	29 836	29 789		
August	29 768	29.869	29.819	29 677	29.729	29 777	29 876	29.732	29 841		
September.	29 624	29.715	30 017	29 88t	29 801	29.824	29 825	29 832	29.767		
October .	29 436	29 849	29 604	29 562	29 847	29 516	29.803	29.646	*		
November.	29.672	29 599	29 718	29.690	29.575	29.821	29 905	29.785			
December.	29 574	30.007	30.245	29 885	29.658	29.697	29 778	29.807			
	February March April May May June July August September October November .	Janusry . 29 702 Febroary . 29, 697 March . 29, 697 March . 29, 731 May . 29, 731 June . 29, 81 July . 29, 716 August . 29, 718 September . 29, 624 October . 29, 436 November . 29, 672	184t. 1842. 1845. 1845. 1846	184t. 1842. 1843. 1843. 1843. 1845	MONTIS.	MONTIS.	MONTINS	MONTINS	MONTINS	MONTINS	

These numbers show the exact length of the column of mercnry which has been balanced by the atmosphere in every month. The length of this column depends almost whichly upon the amount of air and of water mixed with it in the invisible shape of vapour, and every variation in the volumes of air and water is shown by a corresponding variation in the reading of the barometer. We may briefly remark, that if the column of mercury in a barometer be weighed in pounds, such weight would represent the pressure of a column of atmosphere of the same dimensions reaching from the place of the barometer, to the top of the atmosphere.

If at any time there be a diminntion of pressure at one place, there must be a corresponding increase at some other place; the less portion of the atmosphere is not aunihilated; for instance, if at any place the decrease of the reading of the barometer be one inch, this implies that one-thirtieth of the whole atmosphere is removed from that place—there must either be an increase at some other place of one inch in the reading of the barometer, or that portion of the atmosphere must be spread over many places; hence one of the necessities of uniform and systematic observations taken simultaneously at many places.

MEAN MONTHLY TEMPERATURE OF THE AIR AT GREENWICH.

Months.		YEARS.							
	1811. 1817.	1844.	1815. 1816.	1847. 1848.	1819.				
	Deg. Deg.	Deg. Deg.	Deg. Deg.	Deg. Deg.	Deg				
January	33 6 32.9	39 9 39.1	38.3 43.7	35.1 34.6	40.1				
February	35 3 40.8	36.0 35.2	32.7 43.9	35.4 43.4	43.2				
Marcn	46.2 44 9	42.9 41.5	35.2 433	41.0 438	42.5				
April	470 452	47.1 51.7	46 3 47.1	45 3 47.6	43.2				
May	56.8 53.2	52.2 529	49.4 54.6	56.4 59.7	54.0				
June	56.4 62 9	56.3 60.7	60.7 65.3	58.0 58.5	57.9				
July	578 60.2	60.9 61.4	59.8 64.5	65 4 61.5	62.1				
August	60.5 65 4	62.1 57.7	573 632	62.1 58.5	62.9				
September	58.1 56.4	59.5 56 9	53.6 60.1	543 558	58.8				
October	48.8 , 45 4	48.0 49.5	50.2 50.5	529 516					
November	42 7 42.8	438 440	458 460	46.9 43.8					
December	40.5 45.0	43.9 33 0	417 32.9	42.8 44.0					

* On reading these numbers, the figures to the right of the point show the parts of an Inch; thus, 23.697 is to be read 29 inches, 6 tenths, 9 hundreds, and 7 thousandths of an Inch.

MEAN DAILY RANGE OF TEMPERATURE OF THE AIR AT GREENWICH.

Months	YEARS.										
BIONING.	1841.	1842,	1843	1844.	1845.	1816.	1817.	1846.	1849.		
January . February . March . April June July Augnst September .	Deg. 11.1 9.1 17.5 16.5 21.3 18.8 15.6 16.3 16.0 11.7	Deg. 6.4 10.4 10.9 16.1 16.7 22.2 17.7 20.3 12.8 13.2	Deg. 7.9 7.5 12.4 15.4 14.7 15.2 15.6 16.4 17.4 12.8	Deg. 8.7 10.5 12.1 21.0 18.6 19.9 16.2 15.4 15.3 12.4	Deg. 6.4 8.7 11.1 16.8 14.2 18.2 14.9 14.8 15.6 13.3	Deg. 7.7 8.3 12.7 13.4 16.6 22.5 17.5 15.5 18.0 10.4	Deg. 8.8 11.6 16.0 18.3 21.2 19.4 23.3 21.0 18.7	Deg 8.3 10.7 14.3 16.7 30·5 17.7 22.5 18.5 20.9 16.5	Deg. 10.9 12.9 13.8 16.0 16.3 20.6 22.6 20.2 17.5		
October November . December .	10.7	7.9 8.2	10.2	7.4 5.4	10 9 9.9	8.0 10.3	11.4	15.7 12.7			

MEAN MONTHLY TEMPERATURE OF EVAPORATION AT GREENWICH.

MONTHS.		YEARS.										
proxins.	1841.	1842.	1843.	₹ 1814.	1845.	1846.	1817.	1848.	1849.			
	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	D. g	Deg.	Deg.			
January.	. -	31.9	38 8	38.7	37.4	42.5	34.5	32 6	38.6			
February		38.7	35.0	33.9	31.4	42.2	33 9	41.6	414			
March .	. 44.1	42.9	41.2	40.2	33.4	41.1	37.9	41.6	398			
April	. 442	41.9	45 0	47.6	43.5	44.8	41.4	44 5	415			
May	. 53.6	495	50 4	49.1	47.0	51.0	52.1	53 0	49.0			
June	. 526	57.4	53.5	55.0	57 5	59.7	53.4	54.4	48.7			
July	54.5	55.9	58 2	57.3	56.7	59.8	60.0	57.6	56.2			
August .	57.4	61.2	59.5	54.6	54.7	59.8	595	55.2	57.3			
September	55.8	54.8	56.9	547	51.5	57.1	51.8	53 2	54.6			
October .	47.1	43.9	46.4	49.3	48.4	48.8	50 9	49.3				
November	41.5	41.9	42.4	43.1	44.4	44.7	45.6	41.7				
December	. 38.3	44.2	43 0	32.2	40 0	31.9	41.6	423				

MEAN MONTHLY TEMPERATURE OF THE DEW POINT.

Months.	YEARS.									
MONTHS,	184t.	1442.	1813.	1844.	1845.	1846.	1847.	1848.	1819.	
January . February . March	1841. Deg. 40.7 50.8 49.2 51.6 55.0 53.7 45.1	Deg. 30.0 38 4 40.7 38.3 46.7 54.3 53.2 58.9 53.5 42.4	Deg. 37.3 33.4 38.9 42.6 48.8 51.2 56.3 57.8 54.9 44.7	Deg. 36.1 31.8 36.6 44.2 46.1 51.6 54.7 52.3 53.2 46 0	Degr. 35.9 28.5 30.0 40.6 44.6 55.2 54.4 52.6 49.7 46.5	Deg. 40.8 39 9 38 3 42 3 48 0 56.0 56 5 57.5 54.9 47.2	1047. 10eg. 33.6 31.0 33.5 37.2 48.6 49.8 56.4 56.1 49.7 49.1	Deg. 31.7 38.8 38.5 41.4 48.6 51,6 54.6 52.8 50.9 47.4	Deg. 36.4 38 8 36.5 39 1 43.9 48.4 51.1 53.0 51.0	
November . December .	39.8 35.2	40.4	40 9 42 0	41.9 30.0	42 8 37.7	43.1 29.4	44 I 39.8	38.8 40.1		

AMOUNT OF RAIN FALLEN IN EVERY MONTH.

MONTUS.	YEARS.										
MONIUS.	1841.	1812.	1843.	1844.	1845.	1849.	1847.	1848.	1849.		
	10.	ln.	In.	ln.	In.	ln.	In.	Iu.	In.		
January	2.1	10	1.4	2.4	2 4	28	1.4	1.2	1 6		
February .	1.3	1.1	2.4	2.3	0.9	1.5	1.4	2.6	2.2		
March	1.4	1.9	0.5	29	1.5	09	0.8	3.1	0.5		
April	1.9	0 4	1.7	04	0.6	3.1	1.0	3.4	2.2		
May	2.1	2.1	3.8	0.4	2.2	1.5	14	0.4	3.9		
June	2.7	10	1.3	1.8	1.9	0.5	1.5	3 5	0.2		
July	3 6	3 0	2.4	2.8	1.9	1.5	0.7	2.0	2.1		
August	2 2	1.8	3.6	20	3.1	4.0	2.1	4.3	0.5		
September .	4.0	4.0	0.5	1.2	2.1	1.8	1.6	2.4	3.3		
October	6.0	1.4	4.3	4.0	1.4	5.1	2.0	3.5			
November .	3 7	4.3	2.3	4.3	24	1.5	2.0	1.2			
December .	24	0.7	0.4	0.4	20	1.1	20	2.6			

NUMBER OF DAYS ON WHICH RAIN HAS FALLEN IN EVERY MONTH.

MONTHS,	YEARS.									
MONTHS,	1841.	1842.	1843.	1844.	1845.	1846.	1847.	1818.	1849.	
January	0	7	11	13	14	13	14	9	17	
February .	19	11	15	16	9	7	11	19	10	
March	13	14	7	17	9	14	6	21	8	
April	15	6	15	5	12	16	11	23	19	
May	12	14	23	8	20	8	12	3	15	
June	9	6	15	10	13	5	10	20	5	
July	18	14	14	13	19	10	4	18	12	
August	15	8	12	11	17	11	11	29	3	
September .	14	17	6	9	10	7	11	14	15	
October	25	6	22	18	8	20	13	24		
November .	14	20	20	16	18	8	10	12		
December .	18	9	10	9	13	10	11	14		

As Meteorology affects all classes in every condition of life—the agriculturist the mariner, the invalid—it is particularly to the benefit of these individuals that the labour of the meteorologist is directed, and with this view he must work untiringly onward. If epidemics are produced by atmospheric causes, it is to the euccessful cultivation of medical-meteorology alone we must look for guidance against them and the mitigation of their virulence, and thus improve the public health and lessen the individual suffering of the invalid.

ON THE CALENDAR.

THE PRINCIPAL ARTICLES OF THE CALENDAR,
FOR THE YEAR OF OUR LORD 1850.

	Gregorian, or	New Calendar.	Julian, or Old Calendar.
Dominical Letter		F	A
Golden Number		8	8
Roman Indiction	1	8	8
Solar Cycle	1	11	11
Epact		17	28
/ Man		12 . 4 7	L for the mount 1047 \

CORRESPONDENCE OF THE YEAR 1850 WITH ANCIENT ERAS.

Being, till September 6th, the latter part of the 5610th, and from September 7th the beginning of the 5611th year since the creation of the world, according to the Jews.

to the Jews.

Being the 6563rd year of the Julian Period.

Being the 2603rd year since the Foundation of Rome (according to Varro).

Being the 2597th year since the crao f Nabonasser, which has been assigned to Wednesday, the 26th of February, of the 3967th year of the Julian Period, which corresponds, according to chronologists, to the 747th, and, according to astronomers, to the 746th year before the hirth of Christ.

Being the 2626th year of the Olympiads, or the second year of the 657th Olympiad will hegin in July, 1850, if we fix the era of the Olympiads at 775½ years before Christ, or at or about the beginning of July of the year 3938 of the Julian Period.

Julian Period

Being the latter part of the 1266th, and the heginning of the 1267th year (of twelve lunations) since the Hegira, or flight of Mahomet, which it is generally supposed took place on the 18th of July, in the year 622 of the Christian era. The year 1266 commenced on the 16th of November, 1849, and ends on the 5th of November, 1850.

CALENDAR OF THE JEWS FOR THE YEAR 1850.

5610.		1849.	NEW MOONS AND FEASTS.
Teheth	I	December 16	Rosh Hodesh, or New Moon
,,	10	,, 25	Fast: Siege of Jerusalem
		1850.	
Schebat	l	January 14	New Moon
Adar	1	Fehruary 13	New Moon
,,	13	,, 25	Fast of Esther
,,	14	,, 26	Feast of Purim*
,,	15	,, 27	Schuschan Purim
Nisan	1	March 14	New Moon
,,	15	,, 28	Beginning of the Passover*
,,	16	29	Second Feast, or morrow of Passover*
,,	21	April 3	Seventh Feast*
22 **	22	,, 4	End of the Passover
Ijar	1	,, 13	New Moon
. ,,	18	,, 30	Lag Beomer
Sivaa	1	May 12	New Moon
,,	6	, 17	Feast of Weeks of Pentecost*
,, ,,	7	,, 18	Second Feast*
Tamuz	1	June 11	New Moon
,,	17	27	Fast for the taking of the Temple*
Ab	1	July 10	New Moon
" "	9	18	Fast for the burning of the Temple*
Elul	1	August 9	New Moon
5611.	٠,	a	70 10 11 27 77 11
Tisri	1 2	September 7	Feast for the New Year*
,,			Second Feast for the New Year*
,,	3	,, ., 9	Fast of Gedaliah
,,	10 15	,, 16	Fast: Reconciliation, or Atonement*
,,	16	,, 00	Feast of the Huts or Tabernacles*
" *	21	07	Second Feast of the Huts*
,,	22	90	Feast of Palms or Branches
,,	23	90	End of Hut, or Congregational Feast*
Marchesvan	1	October 7	Rejoicing for the discovery of the Law*
Kislev	1	November 6	New Moon
1	25	20	
Tebeth	1	December 6	Consecration of the Temple New Moon
	10	15	Fast for the Siege of Jerusalem
,,	.0	1851.	rast for the siege of detushed
Schat	1	January 4	New Moon

The Anniversaries marked with an asterisk (*) are to be strictly observed. The Jewish Year generally contains 354 days, or 12 Lunations of the Moon; bnt, in a cycle of 19 years, an intercalary mouth (Veadar) is 7 times introduced, for the purpose of rendering the average duration of the year quite or nearly correct.

MOHAMMEDAN CALENDAR FOR THE YEAR 1850.

Year.	Names of the M	onths.		Month begins.	
Hegiri; 1266.	Safar	**	,,	December 17, 1849.	
12 12	Rebia 1	,,	,,	January 15, 1850.	
11 22	Rebia 11	,,	"	Fehruary 14, "	
,, ,,	Gomedhi 1	1)		March 15, ,,	
>> >>	Gomedhi 11	,,	12	April 14, ,,	
22 12	Rejeb	,,		May 13, ,,	
19 29	Scheban	"		June 19	
" "	Ramedan (1	Month of Fasting)	,,	Tulse 11	
	Schewale	(Bairam)		Anguit 10	
	Dsu'l-Kadah		"	Sautember 9	
" "	Dsu'l-hejjah	17	25	October 8	
Hegiri ; 1267.	Moharrem I	**	29	Moramhon 6	
	Safor 1	19	>>		
"	Rebia	**	22	December 6,	
12 22		**		January 4, 1851.	
(For remarks	on the Mohammed	an year, see the Aln	ranack	for the year 1848.)	

SIGNS OF THE ZODIAC.

7 A T 25...

us

Spring Signs }	2 3 Taurus 3 II Gemini	Autumn Signs	3	8 9	m Scorpio 7 Sagittarius
Summer Signs {	4 % Cancer 5 Ω Leo 6 ng Virgo	Winter Signs		11	₩ Capricornu Aquarius ¥ Pisces

FIXED AND MOVEABLE FESTIVALS, ANNIVERSA RIES, &c.

			•		
Epiphany	Jan.	6 1	Birth of Queen Victoria	22	24
Septuagesima Sunday	,, 2	27	Trinity Sunday	12	26
Martyidom of King Charles I.	,,	80	Restoration of King Chas. II.	>>	29
Quinquagesima—Shrove Sun.	Feb. 1	0	Corpus Christi	>>	30
Ash Wednesday	,, l	3	Accession of Queen Victoria J	nno	20
Quadragesima-1st Sunday?			Proclamation	22	21
in Lent	,, 1	7	St. John Baptist-Midsum-7		
	Iarch	1	mer Day	2.3	24
St. Patrick		7	Birth of Dowager Queen 7 4,		
D * 0 *	′′	24	Adelaide A	ug.	13
Annunciation—Lady Day	-,, 2	25 }	St. Michael-Michaelmas Day Se	ep.	29
Good Friday	,, 2	29	Gunpowder Plot No	ov.	- 5
EASTER SUNDAY	,, 3	31	Birth of Prince of Wales	22	9
Low Sunday		7	Birth of Prince Alkert	12	26
St. George		23	St. Andrew	22	30
		5		ec.	
Ascension Day-Holy Thursday	22	9	St. Thomas	22	21
Pentecost-IV hit Sunday		19	Christmas Day	22	23

BEGINNING OF THE SEASONS, 1850.

						D.	H.	M.
The Snn enters	Capricornus (Winter hegins)	1849,	Dec.	21	9	42	P.M.
,,	Aries (S	Suring begins)	1850,	March	20	11	3	P.M.
,,	Cancer (Su	immer hegins)	22	June	21	8	()	P.M.
23	Libra (A	ntuma begins)	22	Sept.	23	10	0	A.M.
32	Capricornus (V	Vinter hegins)	32	Dec.	22	3	38	A M.

DURATION OF THE SEASONS, AND THE YEAR 1850.

he Sun will be in the	Winter	signs	89 Days	1 Hour	21 Minutes
,,	Spring	,,	92 ,,	20 ,,	57 ,,
**	Summer	**	93 ,,	14 ,,	0 ,,
**	Antunn	**	89	11	38

Autumn Autumn Autumn August 17 Sa Martin Autumn August 18 Sa Marti

The Sun will be North of the Equator (Spring and Summer) 186 days 10 hours 57 minutes

The Sun will be South of the Equator (Winter and Autumn) 178 days 18 hours 59 minutes.

The length of the Tropical Year, commencing at the Winter Solstice 1849, and ending at the Winter Solstice 1850, is 365 days 5 hours 56 minutes.

ASTRONOMICAL SYMBOLS AND ABBREVIATIONS EXPLAINED.

0	The Sun	@ Iris	O Degrees
0	New Moon	Astrea	' Minutes of Arc
))	First Quarter of Moon	S Flora	" Seconds of Arc
Ô	Full Moon	& Metis	D. Days
((Last Quarter of Moon	24 Jupiter	H. Hours
४	Mercury	h Saturn	M. Minutes of Timo
±0+Q.	Venus	li Uranus \$\Psi\$ Neptune	S. Seconds of Time
÷	or & The Earth	4 Neptune	O Sunday
ð	Mars	& Ascending Node)) Monday
Š	Vesta	23 Descending Node	& Tuesday
学	Juno	N. North	g Wcdnesday
Q	Pallas	E. East	4 Thursday
þ	Ceres	S. South	Q Friday
Š	Hehe	W. West	h Saturday

The Symbol & Conjunction, or having the same Longitude or Right Ascension.

"Quadrature, or differing 90° in Longitude or Right Ascension.

By Opposition, or differing 180° in Longitude or Right Ascension.

(For explanation of Astronomical terms, see Almanack for the year 1848.)

LAW TERMS, 1850.

As Settled by Statutes 2 George IV., 1 William IV., cap. 70. s. 6 (passed July 23rd, 1830), and 1 William IV., cap. 3, s. 2 (passed December 23rd, 1830).

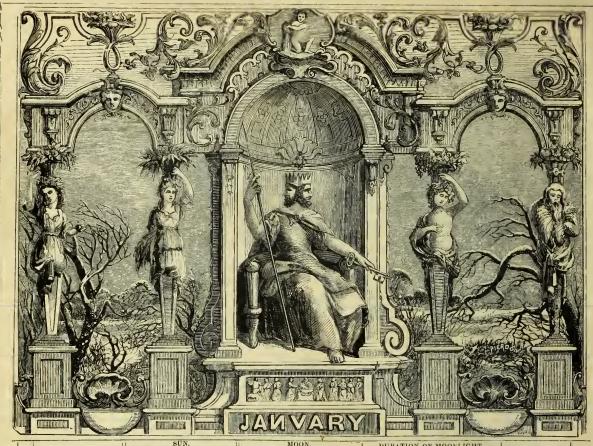
Hilary Term			Begins	January	11	Ends	January	31	
Easter Term			11	April	15	22	May	8	
Trinity Term	••	••	11	May	2	22	June	12	
Michaelmas Term			11	Nov.	2	9.9	Nov.	25	

UNIVERSITY TERMS, 1850.

OXFORD.

TERMS.	BEGINS.	Enns.				
Lent	January 14 April 10 May 22 October 10	March 24 May 18 July 6 December 17				

	CAMI	BRIDGE.	
TERMS.	BEGINS.	DIVIDES.	ENDS,
Lent Easter Michaelmas	Jan. 13 April 10 Oct. 10	Feb. 16, Noon May 23, Noon Nov. 12, Midnight	March 22 July 5 Dec. 16



1						SUN					MOO				DUB	ATIC	ON OF M	IOONLIGHT.	T	нен	WATER	1
M	w	ANNIVERSARIES, OC-				SOUTH		i	Rise		Souti			B	efore	Sunri	se. w	After Suuset.	٦,		N BRINGE	lear Fear
D	D	CURRENCES, FES.	Ri	3E8.	Afte	er 12	Height above norizon	Sars.	Aftern	non	Morning	ght	SETS. Morning.	-	O'Cl	ock	Moon'	O'Clock,	- ^	LTONDO	a DRINGE	Day re Y
1		TIVALS, &c.			o'Cl	ock.	Height above horizon		Alteria	1001	Morning.	Bei	лаогинь.	1 :	2h. 4	h. 6h.	. Iã v	6h. 8h. 10h.		Moraing.	Afternoon	1 2
-	-		H.	м.	M.		Deg.	н. м.	B.	M.	н. м.		н. м			- I				н. м.	п. м.	
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3		Day breaks 6h 3m A.M.	8	- 8	4	47	153	4 2		40	4 20	- 4	11 2	11-			20		1	5 20		3
2		Twilight ends 6h 6m r.m.	8	8	5	15	153	4 3	1	50	5 9	411	11 28	-11	-		- 5			6 15		11
F	1		8	8	5	42	153		ļ - -		5 5	914	_			-	- 6		2	7 0		11
	{~	Length of night 16h 4m		0	0		104	4 4	Morni	- 1	0 0/	3/	11 53	11/16			2000					
1	S	Epiphany	8		0	8	10	4 0	1	0	6 43	$32\frac{1}{2}$	Afternoor	1	8 8		23			7 55		
1	ļΜ	Plough Monday	8	7	6	34	$10\frac{1}{4}$	4 7	$\parallel 2$	7	7 28	$ 28\frac{3}{4}$	$0 \ 40$			R	4		<u> </u>	9 0	9 35	7
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9	$ \mathbf{W} $	surance due	8	6	7	25	$16\frac{1}{2}$	4 9	4	15	8 59	$22\frac{1}{2}$	1 37	100			26		[]]	1 20	11 50	9
10	Ta	Alpha Arietis souths 6h 39m	8	5	7	50	$16\frac{1}{5}$	4 10	5	15	9 46	201	2 13			1//	27			No Tide.	0 20	10
11	F	Hilary Term beg.	8	5	8	14	163	4 12	6	10	10 33	19 1	2 54				28			0 45	1 10	11
12	1-	Timery remises.	Q	4	8	27	163	4 14	7	า	11 01	104	3 42				$\frac{1}{2}$			1 30	1 50	12
		llow S oft France	0	3	9	0/	17	1 15	7	16	11 21	19								2 10	2 25	N. Contract of the Contract of
13	S	1st S. aft Epiph.			9	00	17	4 10			Afternoon	1 - 2										10
14	M	Ox. Term begins	8	2	9	23	1/4	4 17		25	0 56	4	5 32				1			2 45	1	14
15		Alpha Ceti souths 7h 52m	0	1	9	43	$17\frac{1}{2}$	4 19		58	1 42	1	6 33				2			3 20	0 00	11.
16	W	Bat. of Cor. 1809	8	0	10	5	17 1/2	4 20	9	28	2 28	$26\frac{1}{2}$	7 37				3			3 50	4 10	16
17	TH	Pleiades south 7h 52m P.M.	7	59	10	25	$17\frac{3}{4}$	4 21	9	53	3 13	301	8 42				% 4			4 25	4 40	17
18	F	Prisca. Old T. D.	7	58	10	45	18	4 23	10	17	3 58	34 7	9 50				5	3,7//		4 55	5 15	18
19	S	Aldeharan souths 8h 32m	7	57	11	3	18±	4 24	10	39	4 43	381	10 59				6			5 35	5 50	19
20		2D S. aft Ергрн.	7	56	11	21	181	4 26	11	3	5 30	13	Morning.				7			6 10		
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22	Τυ		1	54	11	55	184	4 30	1	59	7 10	1-4	1 21				9		-	7 45		
23	W	Day inc. 54m.	7	53	12	10	19	4 32	Aftern		8 5	-2	2 37	_			10		11.	8 50	9 30	
24	TH	Capella souths 8h 51m r.m.	7	52	12	25	194	4 33	1	12	9 4	57	3 50	11_			11		111	0 4	10 45	24
25	\mathbf{F}	Convers. St. Paul	7	51	12	39	$19\frac{1}{2}$	$4 \ 34$	2	4	10 5	$57\frac{3}{4}$	5 2				12			11 25	Midnight.	25
26	S	Rigel souths 8h 44m P.M.	7	50	12	52	$19\frac{3}{4}$	4 36	3	8	11 8	57 1	6 7				13			No Tide.	0 30	26
2:	S	SEPTUAGESIMA	7	49	13	4	20	4 38	4	19	Morning.	_	7 4	1			14		11	0 59	1 30	27
28	M	Length of day 8h 52m	7	48	13	16	201	4 40		38		551	7 51			-			11	1 54	2 20	28
29		Beta Tauri souths Sh 42m	7	46	13	27	$20\frac{1}{2}$	$\frac{1}{4}$ 42		56	1 10	$52\frac{1}{4}$	8 26	1	-	-	16		-	2 47	3 15	11
30		K. Chas. I. Mar.	1	45	13	37	203				2 6			1			100		-11	3 35	480	30
			1112		_		-0.1	4 44		16		$ 48\frac{1}{4}$	9 2	1-	-		_ 7		4		4 40	31
3	LIE	Hilary Term ends	1	43	13	45	$21\frac{1}{4}$	4 46	9;	30	2 59	43 \frac{1}{2}	9 29				18		11	4 20	4 40	.91
-																			_			

JANUARY.

THE SUN is situated sonth of the Equator, or he has south declination, and is in the sign Capricornus (the Goat) till the 20th, having heen in that sign 29 days, 10 hours, 38 minutes. On this day, at 8h. 20m. A.M., he enters the sign Aquarius (the Water-hearer).

On the 1st day his distance from the earth is 93,408,000 miles, being the least in the year. He rises on the 1st at 3° S. of the S.E. hy E.; on the 16th, at the S.E. hy E.; and on the last day at 5½° S. of the E.S.E. He sets on the same days at 3° S. of the S.W. hy W., at the S.W. by W., and at 5½° S. of the W.S.W. points of the horizon respectively.

The Mony is in the constellation Lea till the 2d, convision day the constellation Lea till the 2d, convision the constellation Lea till the 2d. convision the surface of the constellation Lea till the 2d. convision the constellation Lea till the 2d. convision the constellation Lea till the 2d. convision the constellation Lea till the 2d. convision the constellation Lea till the 2d. convision the constellation Lea till the 2d. convision the constellation that the convenience of the convenienc

at 3°S. of the S.W. hy W., at the S.W. by W., and at 5½°S. of the W.S.W. points of the horizon respectively.

The Moon is in the constellation Lee till the 3½, on which day she passes into Virgo; on the 7th, into Lihra; on the 9th, into Scorpio and Ophiuchus. She is in Sagittarius on the 1th, 12th, and 13th; in Capricornus, on the 14th and 15th; in Aqnarius, on the 16th; in Pisces and Cetus, alternately, till the 21st; in Aries, on the 22d; in Taurus, on the 28th and 27th; and in Leo, from the 28th to the end of the month.

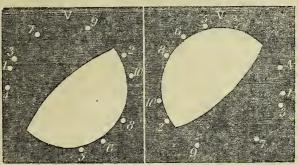
She is above the horizon when the Sun is helow, during the morning hours, at the heigining and at the end of the month, and the evening hours, from the middie till nearly the end of the month.

She is situated N. of the Equator till the 4th; is on the Equator at 9h. F.M. on this day; is at her greatest south declination on the 12th; is on the Equator again on the 19th; reaches her extreme N. declination on the 26th; and is allitle N. of the Equator at the end of the month.

She is near Jupiter on the 3d, Venus on the 12th, Mercury on the 14th, Saturn on the 19th, Uranns on the 20th, Mars on the 24th, and Jupiter again on the 30th, at midnight.

On January 23d several stars are occulted by the Moon; and early on the morning of the 24th the hright star Aldebaran will be occulted. The disappearances of the stars will take piace at the dark limb of the Moon, and their re-appearances at the hright limh. The Moon will be seen to approach Aldeharan for some time before it disappears. The annexed diagrams exhibit the places at which the several phenomena take place, hoth for telescopes which do, and for those which do not, invert. The diagram in hoth cases is drawn more especances.

OCCULTATIONS OF STARS BY THE MOON, JANOARY 23 AND 24, 1850.



LAST QUARTER NEW MOON ..

PERIGEE

FIRST QUARTER 21 FULL MOON . 28

As seen through an inverting telescope.

cially for the appearance of the Moon at the time of the occultation of Aldebaran; the places marked for the other occultations will, therefore, be understood as having the same relative position to the highest point of the Moon at the times of their occurrence, as seen through the telescope, as they have to the letter V in the diagram.

Gam- (will disappear) D. H. M. ((and re-appear)	р. п. м.
ma {	at the place	} lat 23 5 4 P.M. ⟨	at the place	2 at 23 6 6 P.M.
Tauri (marked) (marked	
Theta I T	auri "	3 at 23 9 42 P.M.	,,	6 at 23 10 49 P.M.
Theta 2 T	auri "	4 at 23 9 49 p.m.	,,	5 at 23 10 43 P.M.
A Star	,,	7 at 23 10 47 P.M.	12	8 at 23 11 52 P.M.
Aldebarai	a ",	9 at 24 1 32 A.M.	**	10 at 24 2 1 A.M.

MERCURY is in the constellation Sagittarius till the 6th; in Capricornus, from

AM.

A.M.

A. 31.

9 40 A.M.

12

51

31 20

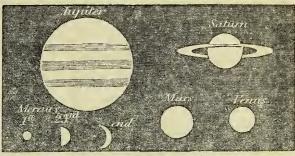
3 29

the 6th to the 26th; in Aquarius, on the 27th, 28th, and 29th; and, on the

the on to the 20th; in Aquarius, on the 27th, 28th, and 29th; and, on the last day, enters Capricornus.

He sets on the 1st, at 4h. 26m. P.M.; on the 5th, at 4h. 46m.; on the 10th, at 5h. 13m.; on the 15th, at 5h. 41m.; on the 20th, at 6h. 6m.; on the 25th, at 6h. 19m.; and on the 31st, at 6h. 8m. P.M. These times are 0h. 26m., 0h. 42m., 1h. 3m., 1h. 22m., 1h. 40m., 1h. 45m., and 1h. 22m. after sunset respectively. He is, therefore, favourably situated after the Sun sets, from the 10th to the

RELATIVE TELESCOPIC APPEARANCE OF THE PLANETS IN JANUARY, 1850.



Scale, 40 seconds of arc to one inch

end of the month. The best times are from the 20th to the 28th. He sets on the 1st at 5° S. of S.W. hy W.; on the 10th at S.W. hy W.; on the 23d at W.S.W.; and on the last day at 5° N. of W.S.W. He is moving eastward among the stars till the 28th; is stationary on the 29th; and hegins to move westward on the 30th. His path among the stars, during this month, is shown in the diagram in Fehrnary

VENUS is in the constellation Sagittarius to the 25th, and in that of Capricornus VENUS is in the constellation Sagittarius to the 25th, and in that of Capricornus from the 26th. She is a morning star throughout the month, but not favourably situated for observation. She rises on the 1st at 7h. 5m.; and on the last day at 7h. 30m. near the S.E. by E. point of the horizon.

MARS is in the constellation Taurus. He is visible throughout the night, and sets on the 1st at 7h. 21m. A.M.; on the 15th at 6h. 10m. A.M.; and on the last day at 5h. 5m. A.M., near the N.W. point of the horizon.

JUPITER is in the constellation Virgo throughout the month.

He rises on the 1st at 10h. 27m. P.M., and on the last day at 8h. 24m. P.M., midway hetween the E. and E. hy N. points of the horizon; and he sets after the Sun rises.

the Sun rises.

JUPITER'S SATELLITES. -Several immersions of the 1st, 2d, and 3d Satellites, and an emersion of the 3d, and another of the 4th, take place. The relative position of the Satellite to Inpiter at the instant of the eclipse is shown in the annexed diagram, as viewed through an inverting telescope.

BELATIVE POSITION OF EACH SATELLITE TO JUPITER AT THE TIME OF IMMEBSION OR EMERSION.

1st Sat. 2nd Sat. 3rd Sat. 4th Sat. 1771 . €m.

SATURN is in the constellation Cetus throughout the month.

He is an evening star, and sets at a point a little S. of W. at 11h. 23m. P.M. on the 1st, and at 9h. 37m. P.M. on the last day. He souths at an altitude of

0h. 11m

14

0

56 0 1h. 24m

24 24 24

19

11

on tho 1st, and at the solution Pisces throughout the month.

17°2 nearly.

URANUS is in the constellation Pisces throughout the month.

He sets near the W. hy N. on the 1st, at 1h. 28m. A.M., and on the last day at 11h. 29m. P.M. He sonths on the 15th, at 5h. 45m. P.M., at an attitude of 46°3°.

NETTUNE sets on the 1st at 8h. 43m. P.M.; on the 15th at 7h. 51m. P.M.; and the W.S. W. on the last day at 6h. 51m. P.M., midway hetween the W. hy S. and the W.S.W. points of the horizon.

of the	TIM		THE PLA			or	JUPITER'S SATELLITES.					OCCULTATIONS OF STARS BY THE MOON.								
Days c Mont	Mercury.	Venus. Morning.	Mars.	Jupiter. Morning.		Neptune.	lst Imme	Sat.		3rd Sat. I. Emer		Names of the Stars.		8 2	imes of disap ance & re-ap ance of the S	pear- li		Between what Latitudes visible.		
1 6	н. м. 0 39 0 54 1 9	н. м. 11 0 11 8 11 16	н. м. 10 36 10 10 9 46	н. м. 4 54 4 35 4 15	н. м. 5 27 5 8 4 50	н. м. 3 37 3 18 2 59	п. н. 5 2 12 3 19 5	м. 6 а.м 59 а.м 52 а.м	. 4	п. м. 2 27 а.: 3 5 а.: 5 24 а.:	M. I.	45 Leon	is	6	п. н. м. 2 6 30 д 2 7 25 д		Dark Bright	7° N. & 89° N.		
16 21 26	1 20 1 27 1 22	11 23 11 31 11 38	9 24 9 3 8 43	3 55 3 35 3 15	4 31 4 13 3 55	2 40 2 21 2 2	21 0 28 2	21 A.M 14 A.M	1. 18	2 A.:	M. I.	Xi 2 Ce	ti	4 1	21 5 4 1 21 5 50 1	P.M.	Dark	22° N. & 90° N.		
31	I 3	11 44	8 25	2 54	3 37	1 42	2nd.	Sat.	18	th. Sat. 4 12 A		f Tauri		5	(22 9 57 1 (22 i0 52 F	·M.	Dark	10° N. &		
							10 0 17 3 24 5	43 A.M 18 A.M 53 A.M				115 Tau	ıri	5	24 8 16 1 24 9 29 1		Bright Dark	9° N. & 74° N.		
TIM	ES OF C	HANGES	of the B	100N,			R	IGHT A	SCENS	ONS A	ND DEC	LINATI	ONS OF	THE	PLANETS					
	when she			istance		RCURY.	VENU	JS.	MA	RS.	JUPIT	TER.	SATU	RN.	URAN	us.	NEP	TUNE.		
	ogee), or at the Earth	Decli- nstion South	Right Ascension	Decli- nation South.	Right Ascension	Decli- nation North.	Right Ascension	Decli- nation North.	Right Ascension	Decl natio South	n Ascension	Decli- nation North.	Right Ascension	Decli- nation South.						

26 26 20 11 14 11 37 36 3 4 58 2 0 13

23 24

26° 29′ 11h.36m

37

25 26

17' 17h. 44m 23° 10' 5h.

38 23 22

53 18

18

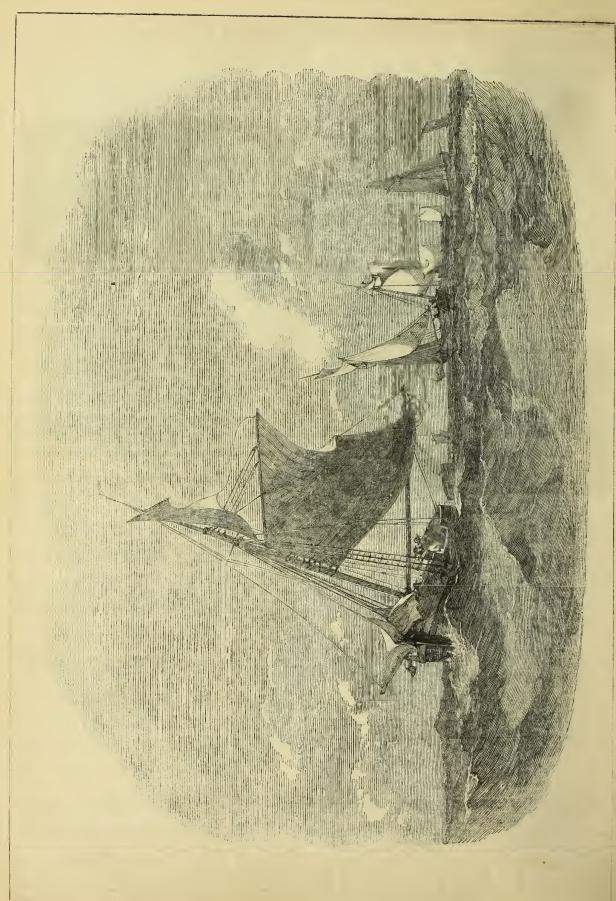
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10' 22h, 20m 11° 11

4

12 22 13 22 21 21

15 22 18 22 22 22



NOTES ON NATURAL HISTORY.—JANUARY.

THE common wren, "Kitty wren" as the bird is familiarly called by children, is one



the cold; and it hops about as gaily when frost and snow are on the ground, as in the brightest days of summer. The female is days of summer. The female i sometimes, when she has half finished it, she appears to take a dislike to the spot; and, after surveylog it carefully, and hopping from post to tree, and from tree to rail, and holding her little head first on one side and then on the other, as if she were weighing all the advantages and disadvantages of the place, she scems finally to make up her mind, and either sets to work to finish her nest out of hand, or she flics off to some more convenient situation, where she begins a new one. Wherever

hand, or she files off to some more convenient situation, where she begins a new one. Wherever the nest may be placed, the wren is never satisfied with its situation unless it is well sheltered from the rain; and on this account she always chooses a nosk under the thatch, the cavity in a hollow tree, the projecting bank of a hedge, a hole in a hayrick, or some similarly protected place. The material used in building the nest is generally that which is nearest at hand, and, of course, differs in different situations; one that was built near a schoolroom being actually constructed in great part of the scrapings and feathers of writing quills! The wren is generally very desirous to conceal her nest; and when shas brought a bundle of moss almost as large as herself, she will hop about from branch to branch, carrying her load with her, "anxiously waiting for some slow-walking passenger to move away before she ventures to approach the spot where the nest is in progress." Mr. Knapp, in his "Journal of a Naturalist," relates, among the stratagems of a wren to conceal her nest from observation, that she had formed a hollow space in the thatch inside a cow-shed, in which she had placed her nest by the side of a rafter, and finished it with her nsual neatness; but, lest the orifice of the cell should engage attention, she had negligently hung a ragged piece of moss on the straw-work, concealing the entrance and apparachly proceeding from the rafter; and so perfect was the deception, that it would not have been noticed, had not the bird betrayed her own secret by darting out. When the wren is sitting, if she sees any one approachiog her, when a strength is many times with vehomence, as though she were scolding outrageously, particularly when the intruder appears frightened and runs away; in which case the wren sometimes follows to a considerable distance, with loud manifestations of anger. The nest is very large in proportion to the small size of the bird, and so deep that the young ones are kept almost in darkness. The yo ness. The young are very numerous, as many as sixteen having been found in one nest; and both their number and the darkness of their abode have been alluded to by Grahame, in his poem on the birds of Scotland:—

The numerous progeny, claimants for food supplied by two small bills, and feeble win Of narrow range, supplied—sy, duly fed— Fed in the dark, and yet not one forgot.

The wren, in Eogland, is generally kindly treated, even by boys; but, iu Irend, hunting the wren is a favourite pastime on Christmas Day. The hunting The wren, In Eogland, is generally kindly treated, even by boys; but, in Ireland, hunting the wren is a tavourite pastime on Christmas Day. The hunting is performed with two sticks, one of which is used to beat the bushes, and the other to throw at the bird. Mr. Yarrell mentions that "it was the boast of an oid man who died at the age of a hundred, that he had hunted the wren for the last eighty years, on Christmas Day." On St. Stephen's Day (December 26th) the children used to exhibit the slaughtered birds on an ivy-bush, decked with ribbous of various colours, and to carry them about, singing—

The wren! the wren! the king of birds! The best of all that live in the furze;

and to collect money to bury the wren. In some places the wren itself is hunted on St. Stephen's Day. Happily, this barbarous custom is now abolished, except in some few places in the couth of Ireland. The feeling of the children in fingland with respect to the wren is very different; as, so far from hunting the bird, or wishing to injure it in any way, they have a superstitious feeling that it is unlucky to hurt it, and, con-equently, beys that delight in attacking evry other kind of bird that falls in their way, respect the wren, and would tremble at the themest of killing one. thought of killing one.

In Jannary, vegetation is, of course, suspended; and the only green leaves that appear through the suow are those of evergreens, particularly those of the pine and fir tribe, which, when the snow is partially melted and again frozen, have a very singular and beautiful effect; as the delicate tracery of their branches, gracefully drooping from the weight of the brilliant icicles which hang from them, is so striking as to give the idea of the garden of a fairy palace rather than any object of ordinary occurrence. After a hoar frost, the trees are still more beautiful. Trees that shed their leaves are generally considered to present his beauty in winter; and yet it is impossible to look at the leafless limbs of a large tree in the death of winter, particularly when the earth is covered with more beautiful. Trees that shed their leaves are generally considered to press in loc beautiful in winter; and yet it is impossible to look at the leafless limbs of a large tree in the depth of winter, particularly when the earth is covered with snow, without being powerfully struck with the wonderful difference presented by the tracery of different trees when no longer obscured by the leaves, and the ontine of their numerous branches is clearly shown by the white ground beyond. Any one accustomed to trees could never, even in the month of Junuary, mistake an oak for an ash or a poplar. The sturdiness of the oak, and the shortness of its trunk in proportion to its thickness, and the peculiarly rugged character of its branches, mark it as distinctly in the middle of winter as when it is covered with leaves, or even with accorns. The black Italiau poplar, on the contrary, has its stem exceedingly long in proportion to its thickness; and its branches, though very numerous, do not extend far from the tree, and are extremely slender, generally producing tuits of small twigs at the extremity. The Lombardy poplar is still more peculiar in its appearance. It grows very high in proportion to the thickness of its stem, and its long slender branches all taper upwards, so as to give the whole tree the shape of a flane. The willow has loog, slender' drooping branches. The plane trees generally retain their seed-vessels, which hang like balls on long slender stems from the leafless branches; and these trees are also known by their bark falling off in large plates, so as to look exactly as though the tree had been injured by some mischievous boy. There are some large plane trees in Hyde-park, which often

excite indignation from this appearance in the miuds of those who are not acquainted with the general habit of the tree. The American plane tree only acquainted with the general habit of the tree. The American plane tree only ripens its seeds in this country in warm summers; and as, when the seed-vessels burst, and the seeds are scattered, each being farnished with a little white feathery planne, they have a cottony appearance, this free, in North America, is called the cotton-tree. The black Italian poplar has its seeds enveloped in a white cottony down, which falls in such abundance when the seed-vessels burst, as to entitle it also to be called the cotton-tree, as the ground at the foot of the ree is often quite covered over with white cotton, which looks as though it could be used for carding and spinning. The catkin of the black English poplar, on the contrary, is red, and, when it falls, it looks so like the larva of the goatmoth, that children are sometimes afraid to pick it np. The elm, when devoid of leaves, has much less grandenr about it than the oak. The Scotch elm has widely-spreading branches; but those of the English elm are small, and someof leaves, has much less grandent about it that the oak. The Scotch elin has widely-spreading branches; but those of the Euglish elim are small, and sone-what slender in comparison with the size of the tree. The bark is also rough, particularly that of the variety called the Cornish elm, which is very rough, and has often deep fissures in it. The weeping clm is particularly beautiful; and though a few years ago it was comparatively unknown, it is now becoming common in plantatious. The beech is remarkable for the smoothness of its bark; and the birch for its silvery hne, and also for the lightness and elegance of its hranches, which, in early spring, are adorned by long feathery catkins, which are almost as ornamental as flowers.

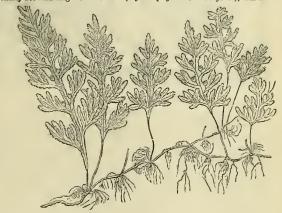
The lower shrubs are seldom ornamental in winter, unless the season is mild.

are almost as ornamental as flowers.

The lower shrubs are seldom ornamental in winter, unless the season is mild, when the Laurustinus is covered with flowers. It is singular enough that the Aŭcuba japonica, though it is a native of Japan, will bear the severest frost nninjured, though the sweet bay and many other similar plants are killed. The Aŭcuba japonica is interesting in other points of view; and it is remarkable that, though it has been a common garden shrub in this country for the last sixty years, it is only a variety with variegated leaves that has been introduced, and it has never been known to produce fruit in Great Britain. The fruit is said to be a kind of nut, but, from the general appearance of the tree, it appears much more likely that it is a herry. It is nearly allied to the degregod, and some be a kind of nut, but, from the general appearance of the tree, it appears much more likely that it is a berry. It is nearly allied to the dogwood, and some botanists have supposed it possible that a hybrid might be raised between it and that tree. The holly, the ivy, and many other trees, are ornamental during winter, from their berries; and the Chimonantus fragrans and the Hamantlis, from their fiswers. The flowers of the Chimonantus are of a pale straw-colour, with a dark purple spot, and they are delightfully fragrant. The flowers of Carrya elliptica also appear at this season, hanging down in long rows, like Love-lies-bleeding in form, but of a greenish colour.

When the ground is covered with snow, few ferns are visible; but, as soon as the snow hearins to melt away the proks about Tunbridge Wells and in many

the snow begins to melt away, the rocks about Tunbridge Wells, and in many other places, are covered with the evergreen kinds; and among them is occasionally seen an elegant little fern (Hymenophyllum tunbridgense), which hangs



HYMENOPHYLLUM TUNBRIDGENSE.

down, "clothing," as Sowerby expresses it, "the shaded, perpendicular faces of dripping rocks and caverns," with its filmy fronds, which lie over one auother, "like the half-ruffled plumage of a bird," and form a kind of tapestry of half transparent, shaded green. These ferns are remarkable for the extreme delicey of their leaves, or fronds, which become brown or shrivelled if exposed to the sun and a drying air even for a few honrs, but which are extremely beautiful when quite fresh and moist. The species, though called the Tunbridge fern, is yet found in many other parts of England, and in the south of Scotland.

At this season of the year the few insects that are still alive are mostly in a torpid state, except the cricket (Achèta doméstica), whose merry chirp is still louder in winter than in summer, on account of the additional



THE CRICKET.

fires that are required at this season; as the cricket, perhaps more than any other insect, enjoys warmth. When we hear the chirp of a cricket, we naturally suppose that it is a sound attered from the mouth, but this is by no means rally suppose that it is a sound nttered from the mouth, but this is by no means the case. The cricket has two wings, which are covered with wing-cases of a leathery consistency, and these wing-cases the cricket ruos against its body with a very brisk motion, whereby it produces its sound. We are told that crickets are used in Africa to promote sleep; but in this country they appear more likely to destroy it, as the noise they make is sometimes so loud as to be extremely disagreeable. It has been remarked that the chirp becomes louder in proportion as the heat increases, and it is extremely difficult to silence the crickets in any way but hyputting out the fire

the heat increases, and it is extremely difficult to silence the crickets in any way but by putting out the fire.

Most insects die at the commencement of winter, leaving their eggs to continue their species; and these, by a wonderful provision of nature, they lay, late in autumn, on the stems and branches of plants, and not non the leaves, as they do in summer—the wonderful instinct that has been implanted in them warning them that thus only can they secure the welfare of their progeny. It has also been observed that the eggs which are to be hatched in summer are fixed only very slightly to the leaves on which the young are to feed; but in autumn the eggs which are attached to the trunk and branches are fixed firmly and covered with the greatest care, so as to enable them to resist all the alternations of weather to which it is likely they will be exposed.



		1	ıf.			SUN	i.		11	MOC	N.		DURATION OF MOONLIGHT.				HIGH WATER		
M	w	ANNIVERSARIES, OC-				South				South		1		Sunrise.		After Sunset.		MATER M Bringe.	e e e
b	D	CURRENCES, FES. TIVALS, &c.	R	ISES.	Befo	re 12	Height above horizon	SETS.	RISES.	Marring	ight ove	SETS.		lock.	Moon's	O'Clock			Day c
1,	, D	TIVALS, &C.			o'C	lock.	ab bor		Afternoon	Morning	Beb Bon	Morning.	2h.	th. 6h.	No.	6h. 8h. 10h.	Morning.	Afternoon	.€
	D	T	н.	b1.	м.	8. 5.4	Deg.	H. M.	н. м.	н. м.	Deg.	н. м.			19		н. м.	н. м.	32
1	F	Length of day 9h 7m	1/2	41	13	54	$\frac{21\frac{1}{2}}{21\frac{3}{2}}$	4 48	10 44	3 49	39	$\frac{9}{10} \frac{51}{20}$			20		5 5	5 25	
2	S	Purifi. Cand. D.	/	40	14	1	217	4 49	11 53	4 37	$34\frac{1}{2}$	10 20	-		- V - 202 / V		5 45	6 5	33
3	S	SEXAGESIMA S.	12	38	14	8	22	4 50	Morning.	5 24	304	10 42	<u></u>		21		6 30	6 50	34
4	M	Pleiades south 6h 40m P.M.	7	36	14	14	224	4 52	1 1	6 10	$26\frac{1}{2}$	11 11	<u>/////////////////////////////////////</u>	-			7 15	7 35	35
5	Tu	U	7	34	14	19	$22\frac{1}{2}$	4 54	2 5	6 56	2	11 41			23		8 5	8 35	36
6	W	Length of night 14h 36m	$\parallel 7$	32	14	23	22출	4 56	3 8	7 43	- 4	Afternoon		92	24		9 10	950	37
7	Тн	Aldeharan souths 7h 17m	7	30	14	27	$23\frac{1}{4}$	4 57	4 5	8 30	$19\frac{3}{4}$	0 53			25		10 25	11 5	38
8	F	Half-Qu. Day	7	29	14	29	$23\frac{1}{2}$	4 59	4 56	9 17	19	1 37			26		11 40	No Tide.	39
9	S	Capella souths 7h 48m r.m.	7	27	14	31	$23\frac{3}{4}$	5 0	5 43	10 5	191	2 28			27		0 17	0 44	40
10	S	Quinquagesima	7	25	14	32	$24\frac{1}{4}$	5 2	6 24	10 52	203	3 25			28		1 6	1 30	41
11	M	[or Shrove S.	7	24	14	33	241	5 4	7 0	11 39	$22\frac{3}{4}$	4 23			29		1 50	2 10	42
12	Tu	Shrove Tuesday	7	22	14	32	$24\frac{3}{4}$	5 6	7 31	Afternoon	251	5 29			0		2 25	2 45	43
13	W	Ash W. Lent b.	7	20	14	31	$25\frac{7}{4}$	5 8	7 56	1 11	29	6 34			138		3 0	3 15	44
14	Тн	St. Val. O. C. D.	7	18	14	29	251	5 10	8 22	1 57	33	7 40			2		3 35	3 50	45
15	F	Rigel souths 7h 25m P.M.	7	16	14	26	25 3	5 12	8 46	2 42	371	8 50			3.8		4 5	4 20	46
16	S	Camb. Term div.	7	10	14	23	$26\frac{4}{1}$	5 14	9 8	3 28	411	9 59			4		4 35	4 55	47
17	S	ISTSUN. in LENT	7	12	14	19	$26\frac{1}{2}$	5 16	9 33	4 15	$45\frac{3}{3}$	11 8			5		5 10	5 30	48
18		Day inc. 2h.20m.	7	11	14	14	$26\frac{3}{2}$	5 18	10 1	5 5	50	Morning.			(A)		5 50	6 5	49
19		Length of day 10h 10m	7	9	14	8	$27\frac{1}{4}$	5 19	10 31		531	0 22					6 30	6 50	50
20	w		7	7	14		$27\frac{4}{1}$	5 21	11 9		56	1 34			8		7 15	7 40	51
21	Тн	Beta Tauri souths 7h 12m	7	- 1	13	55	28^{2}	5 23	11 52		571	2 45	20 200		9		8 15	8 55	52
20	F	Day brk. 5h. 9m.	7	- 1	13		281	5 25	Afternoon		$57\frac{2}{3}$	3 51			10		9 35	10 15	53
23	ŝ	Alpha Orionis souths 7h	7	-	13		- 4	$5 \frac{27}{27}$	1 55		563	4 50			$\overline{\mathbf{n}}$		11 0	11 45	54
24	-	2ND S. in LENT.	6	59	13	00	29*	$\overline{5}$ $\overline{29}$	3 7	10 50	- 4	5 40			12		No Tide.	0 20	55
25	M	Matthias			13		291	5 30	4 26		483	6 22	-		13		0 50	1 20	56
26		Sirius souths 8h 14m P.M.	6		13		$29\frac{3}{2}$	5 32	5 44	Morning.	104	6 56		100			1 45	2 10	57
27	الباني	Twilight ends 7h 27m P.M.	6		13		234	5 34	7 2		493	7 28			15		2 35	2 55	58
		Castor sonths 7h 52m P.M.	6	50	_			5 36	8 18		- 4	7 55			16		3 20	3 40	
20	IH	Castor sontes 7h 52m P.M.	U	301	12	491	303 F	0 00	0 10	1 33	$41\frac{1}{2}$	7 33			TO.		3 20	3 401	03

FEBRUARY.

The Sun is situated south of the Equator, and is moving north. He is in the sign Aquarius till the 18th, having been in this sign 29 days, 14 hours, 45 minutes. On the 18th, at 11h. 5m. r.m., he enters the sign Pisces (the Fishes), His distance from the Earth on the 1st day is 93,643,000 miles. He rises on the 11th at the E.S.E.; and on the last day at $19\frac{1}{4}$ S. of E. by S. He sets on the same days at the W.S.W., and about $19\frac{1}{4}$ S. of the W. by S. points of the horizon.

On the 12th day there will be an Eclipse of the Sun, but it will not be visble in Europe. It will be wishle at places situated for some distance both north and south of the Equator, whose longitudes east of Greenwich are less than 160°. It will be central and annular at the island of Madagascar, and parts of the Indian Ocean. The Eclipse begins on the 12th, at 3h. 26m. A.M., at a place whose latitude is 11°\frac{1}{4} S., and whose longitude is 39°\frac{1}{4} E., and ends on the 12th, at 9h. 35m. A.M., at a place whose latitude is 15° nearly north, and longitude 126°\frac{1}{2} east.

The Moon is in Virgo fill the 3rd; then in Libra till the morning of the 5th; in Ophiuchus on the 5th and 6th; Sagittarius on the 7th, 8th, and 9th; in Capricornus on the 10th and 11th; in Aquarius on the 12th and 13th; on the boundaries of Pisces and Cetus till the 17th, and skirting Aries and Cetus on the 18th; in Taurus on the 19th and 20th; in part of Orion, crossing the Milky Way, on the 21st; in Gemini on the 22nd; in Cancer on the 23rd and 24th; in Leo on the 25th and 26th; and in Virgo from the 27th to the end of the month.

She is above the horizon when the Sun is below, during the morning honrs at the beginning and at the end of the month, and the evening hours from the middle till towards the end of the month.

She is on the Equator on the 1st; at her greatest sonth declination on the 8th; is on the Equator again on the 15th; at her extreme north declination on the 22nd; and on the Equator a third time this month on the last day.

She is near Mercury and Venus on the 11th; Saturn on the 15th; Uranus on the 16th; Mars on the 21st; and Jupiter on the 27th.

MERCURY is in the constellation Capricornus till the 5th, on which day he passes into Aquarius.

passes into Aquarius.

He is an evening star at the beginning, and a morning star at the end of the month. On the 1st he sets at 6b. 3m., being 1h. 15m. after the Sun has set; on the 5th, at 5h. 32m., being 38 minutes after the Sun; and on the 9th, he sets before the Sun. He rises on the 3rd at 7h. 37m.; on the 15th, at 6h. 21m., being 55m. before the Sun; on the 20th, at 6b. 5m, being 1l. 2m. before the Sun. The times of rising from the 18th to the 26th precede the times of sunrising by quantities somewhat more than an hour; and on the 28th he rises at 5h. 52m., being 58 minutes before the Sun. He is favourably situated after sunset during the first three days, and before sunrise between the 18th and the 26th. He sets at the beginning of the month about 6°§ S. of the W. by S. point of the horizon; and he rises about the middle of the month near the E.S.E. point of the horizon. He is near Venus on the 9th, and the Moon on the 11th; but these phenomena are not well situated for observation. He moves westward amongst the stars till the 17th; is almost stationary till the 20tb; and moves eastward from the 21st, as shewn in the annexed diagram.

PATH OF MERCURY FROM JANUARY 1 TO MARCH 31, 1850.



Scale, : 4 degrees to one inch.

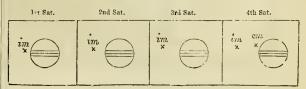
VENUS is in the constellation Capricornus till the 15th, and in that of Aquarius from the 16th. She rises and sets at nearly the same times as the Sun, and is, therefore, unfavourably situated for observation. She moves eastward among the stars; is in inferior conjunction with the Sun on the 7th; is near Mercury on the 9th, the Moon on the 11th, and Saturn on the 15th. Her telescopic appearance is the same as in January.

Mars is in the constellation Taurus throughout the month; on the 16th again touches the Milky Way; and, after this time, he is situated within it. He is visible almost throughout the night, and sets on the 1st, at 5h. 2m. A.M.; on the 15th, at 4h. 16m. A.M.; and on the last day, at 3h. 44m. A.M., near the N.W. point of the horizon. He moves very slowly eastward among the stars; is near the Moon on the 21st; and souths at an altitude of 64°\frac{3}{2}. His motion and relative position to the stars are shown in the diagram in March.

JUPITEA is in the constellation Virgo till about the 11th, when he passes into Leo. He rises on the 1st, at 8h. 20m. r.M.; and on the last day, at 6h. 16m. r.M., at nearly the E. by N. point of the horizon. He is visible throughout the right; souths on the 1st at an altitude of 43°, increasing to 44° on the last day. He moves slowly westward among the stars, and is near the Moon on the 27th. See the diagram, shewing his path in the heavens and relative position to the large stars near him, inserted in May.

JUPITER'S SATELITES.—The disappearance of the satellite by entering into the shadow of the planet is called an immersion; and its re-appearance at coming ont of the shadow is called an emersion. These phenomena, called eclip-es of Jupiter's Satellites, generally take place when the Satellite is apparently at some distance from the body of the planet; except at times when he souths at about midnight, when they take place near to his body. When Jupiter souths before midnight, both the immersions and the emersions happen on the eastern side. In the way they are souths efter midnight, they take place on the watern side is the way they are souths efter midnight, but here or the western side is the way they are souths efter midnight, but here or the western side of the sate of the before mininght, both the immersions and the emersions appear on the eastern side; but when he souths after midnight, they take place on the western side of the planet: and if viewed by means of a telescope which does not invert, such would be their positions; but if an inverting telescope be directed to Jupiter, their appearances will be directly the contrary—the positions of the satellites, which are really on one side, will appear to be on the opposite side. When Jupiter souths after midnight, the immersions only of the first satellite are visible; and when he coult before midnight, the appearance of the contrary tenerance to the contrary tenerance the contrary tenerance to the contrary tenerance. Jupiter souths after midnight, the immersions only of the first satellite are visible; and when he souths before midnight, the emersions only. It rarely happens that both the immersion and emersion of the second satellite can be observed at the same eclipse, but both phenomena are generally visible of the third and fourth satellites. Jupiter souths this year at midnight on the 12th of March. Several immersions and two emersions of the 4th are visible: the relative position of the satellite to Jupiter, at the instant of the eclipse, is shown in the annexed diagram, as viewed through an inverting telescope.

RELATIVE POSITION OF EACH SATELLITE TO JUPITER AT THE TIME OF IM-MERSION OR EMERSION.



SATURN is in the constellation Cetus throughout the month.

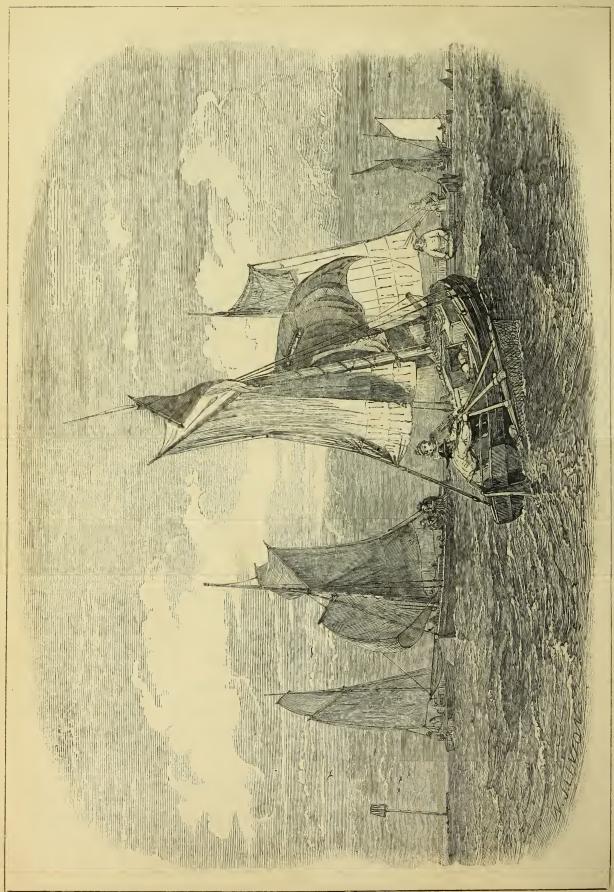
He is an evening star, and sets at the W. point of the horizon on the 1st, at 9h. 34m. P.M.; and on the last day, at 8h. 7m. P.M. He souths at an altitude of 38% nearly. He is near the Moon on the 15th. For his path in the heavens, see the diagram in September.

URANUS is in the constellation Pisces throughout the month. He sets near the W. by N. on the 1st, at 11h. 24m. P.M.; and on the last day, at 9h. 46m. P.M. He souths on the 15th, at 3h. 46m. P.M., at an altitude of 47°. He moves slowly eastward among the stars, and is near the Moon on the 16th.

Neptune sets on the 1st, at 61.48m. p.m.; on the 15tb, at 5h. 53m. p.m.; and on the last day, at 5h. 6m. p.m., midway between the W. by S. and the W.S.W. points of the horizon.

of onth.	TIZ		THE PLAI			OR	JUPITER'S S	SATELLITES.	OCCULTA	TION	S OF STARS BY T	HE MOOI	N.
Days of the Month.	Mercury.		Mars.	Jupiter.		Neptune.	lst Sat.	ses of 3rd Sat. Im. I. Emer. E.	Names of the Stars.	Magni- tude,	Times of disappearance & re-appearance of the Star.	At which limb of the Moon.	Belween what Latiudes visible.
1 6 11 16 21 26 28	H. M. M. O 57 0 19 Morning 11 3 10 42 10 31 10 29	H. M. 11 46 11 57 Aftern. 0 7 0 11 0 13	H. M. 8 21 8 5 7 49 7 35 7 21 7 8 7 3	H. M. 2 50 2 28 2 7 1 46 1 24 1 2 0 53	n. m. 3 33 3 15 2 57 2 39 2 22 2 4 1 57	H. M. 1 39 1 19 1 0 0 41 0 22 0 3 Morning	D. H. M 4 4 7 A.M. 5 10 35 P.M. 11 6 1 A.M. 13 0 29 A.M. 20 2 22 A.M. 21 8 51 P.M. 27 4 16 A.M. 28 10 44 P.M. 2nd Sat. 3 9 46 P.M. 11 0 21 A.M. 18 2 57 A.M. 25 53 A.M.	n. H. M. 15 10 54 P.M. I. 23 2 52 A.M. I. '4th Sat. 3 10 11 A.M. I. 4 1 56 A.M. E. 20 7 49 P.M. E.	48 Tauri Chi Leonis 10 Virginis	6 4 6	P. H.M. {20 0 10 A.M. {20 1 4 A.M. {26 6 18 P.M. {26 6 57 P.M. {27 11 9 P.M. {27 11 46 P.M.	Dark Bright Dark	7° N. & 79° N. 58° N. & 13° S. 60° N. & 13° S.

TIMES OF CHANGES OF THE MOON,	e .			R	IGHT A	SCENSIO	ONS AN	ND DECL	INATIO	ONS OF T	THE P	LANETS.			
And when she is at her greatest distance	of t	MERC	URY.	VEN	US.	MAI	RS.	JUPIT	TER.	SATU	RN.	URAN	us.	NFPTU	JNE.
(Apogee), or at her least distance (Perigee), from the Earth in each Lunation.	Days	Right Ascension	Decli- nation South.	Right Ascension	Decli- nation South.	Right Ascension	Decli- nation North.		Decli- nation North.	Right Ascension	Decli- nation South.	Right Ascension	Decli- nation North.	Right Ascension	Decli- nation South
LAST QUARTER., 4D. 1H. 18M. A.M.	1	21h. 42m	110 4/	20h. 31m	190 54'	5h. 8m	260 3/	11h. 33m	4°26′	0h. 19m	0° 27′	1h. 25m	80 21/	22h, 23m	100 48/
New Moon 12 6 29 A.M.		21 24	11 33		18 24	5 11		11 32	4 36	0 21	0 15	1 26		22 24	10 44
FIRST QUARTER 19 8 12 P.M.		21 1	13 11	21 22	16 41	5 15		11 30	4 49		0 2	1 26		22 24	10 41
FULL MOON 26 At Noon.	16'	20 46	14 53	21 47	14 46	5 20	,	11 28	5 2		North.	1 27	8 32		10 37
APOOEE 8 3 P.M. PERIGEE 24 11 A.M.	21 26	20 46 20 56	16 4 16 33	22 11 22 35	12 41 10 28	5 26 5 32	26 2 26 1	11 26 11 24	5 16 5 31	0 26 0 28	0 24 0 38	1 28 1 29		22 26 22 26	10 32 10 28



NOTES ON NATURAL HISTORY.—FEBRUARY.

In Fehruary, if the season is mild, some few birds begin to build their nests, and others to hop' about and chirp cheerfully, as if feeling a strong sense of enjoyment at the first glimpse of the return of warmth and summer. To those who feel interested in the study of nature, every season has its charm; but, perhaps, at no period of the year has nature so many attractions as when every object around seems first emerging from the sleep of winter. In the depth of winter, when vegetation is quite torpid, the birds are silent; and even when they seem awakeued to returning animation by the first breath of spring, their notes are weak, and their song is imperfect, the sounds being apparently uttered with difficulty; and, as the Rev. L. Jenyns observes, "to hear them labouring at a song, and only managing to get out part of it, conveys the idea of some physical impediment, which for awhile they appear unable to surmount." This is particularly observable in the chaffinch (Fringélla cælebs), which generally utters its



CHAFFINCH.

first feeble notes about the first or second week of February, but which does not attain its full song till some weeks afterwards. When its song has attained its full perfection it is generally very regular, and consists of a definite number of notes. The chaffinch sings very early in the morning; and, indeed, in summer, Jenyns tells us, it begins at three o'clock. This bird is sometimes called the bachelor, probably from Linneus having given the specific uame of coclebs, which straights a bachelor heavy in Swadon and other workers countries the femous signifies a bachelor, because in Sweden and other northern countries the females migrate in the winter to a milder climate, leaving only the male birds behind; migrate in the winter to a milder climate, leaving only the male birds behind; and these males mint naturally have appeared to Linneus so solitary that we cannot wonder he calls them bachelors. With us, however, as is observed in the "Journal of a Naturalist," the sexes do not separate at any season of the year, the flocks frequenting our barn-doors and homesteads in winter being composed of hoth males and females, which are easily distinguished from each other, the male bird being remarkable for the cleanliness and trimness of his plnmage, which, without having any great variety or splendour of colouring, is so composed and arranged, and the white on his wings so brilliant, as to render him a very beautiful little creature. The female is as remarkable for the quiet, unobtrusive timings of dress; and when she lies crunching on her nest elegantly formed of lichers. little creature. The female is as remarkable for the quiet, unobtrusive tintings of dress; and, when she lies crouching on her nest, elegantly formed of liches from the bark of the apple tree and faded mosses, she would hardly be perceptible but for her little bright eyes that peep with suspicious vigilance from her covert." The same work informs us that in Gloucestershire these birds are generally called "twinks," from their constant repetition of one note resembling that word, when they are alarmed or in danger. The female chaffinch is very careful in building her nest, which is a very elegant one, curiously studded with lichens interwoven with wool, and lined with feathers and hair. She generally chooses the fork of a tree, or the centre of a mass of ivy, but in some cases she fixes her nest simply against the trunk of a tree, and in such a situation that it seems wonderful that the nest is not washed away by thefirst heavy storm that occurs. When the nest is closely examined it generally excites astonishment, from the neatness of its workmanship; for it is so firm and strong that it is difficult to pull it asunder. In summer the chaffinch lives principally upon insects, but in winter and very early spring it is apt to attack the seeds that are sown for the early vegetables, and also the first flowers of spring: sometimes the snowdrops, winter aconites. and also the first flowers of spring: sometimes the snowdrops, winter aconites, and the little red archangel will be found with the petals of their flowers lacerated as soon as they unfold; and sometimes the chaffinch may actually be seen tearing the flowers asunder to get at the pistil or incipient seed-vessel, which it finds at

As the month advances, many birds are heard to sing, and among the earliest, after the robin-redbreast and the wren, which may be said to sing all winter, may be mentioned the hedge accentor, or hedge sparrow, the tom-tit, the skylark, the thrush, and the blackbird; and, in short, the melody of the woods may be said to have begun. "To me," says Mr. Waterton, in one of his charming essays, "to me, whom kind Providence has destined to spend the best part of essays, to the open air, the song of birds is soothing beyond expression; and whilst I am admiring the beauty of the rising flowers around me, I know no greater addition to my gratification than that of listening to it. How enchanting is it to inspect the early snow-drops, those 'fair maids of February,' whilst the stormcock is pouring forth his newly-acquired notes from the top of a neighbouring elm! and how delightful it is to hear cock-robin's carol on the thorn that affords a shelter to the humble primrose!"

Sweet are the omens of approaching spring,
When gay the alder sprouts her winged leaves;
When tootling robins carol-welcomes sing,
And sparrows chelp glad tidings from the eaves.

What lovely prospects wait each wakening hour,
When cach new day some novelty displays:
How sweet the sunbeam melts the crecus-flower,
Whose borrow'd pride shines dizen'd in his rays.
Sweet, new-laid hedges flush their tender green;
Sweet peep the arum-leaves their shelter screen;
Ahl sweet is all that I'm denied to share;
Want's painful hitdrance holds me to her stall,
But still hope's smiles unpoint the thorns of Care,
Since Heaven's eternal spring is free from all—CLARE,
Sarly Spring are, indeed, most highly prized no

The flowers of early spring are, indeed, most highly prized, not only for their natural beauty, but because they come to ns with all the charm of novelty, and as a promise of the further pleasures which are in store for us; and hence we seldom feel so much delight in viewing any of the most gorgeons flowers of sumseldom feel so much delight in viewing any of the most gorgeons flowers of summer as we do when we first perceive the graceful form of the snow-drop peeping through the ground, or the bright yellow of the winter aconite, succeeded by the richer yellow striped with brown, and the delicate white striped with pale lilac, of the cloth of gold and Scotch crocuses. These are followed by the primose, with its pale yellow flowers peeping out from every bank, and the heautiful little white wood anemone, with the golden flowers of the buttercups, and the lesser celandine. But among these flowers, which have been so often mentioned, and whose heautiful parties have been subgread upon by every anthor who has written out. whose beauties have been enlarged upon by every anthor who has written on the spring, there are others which have been passed by comparatively unnoticed, though almost equally common. In the depths of Epping Forest, particularly at High Beach, where the noble trees form avenues which lock like the stately High Beach, where the noble trees form avenues which look like the stately asises of some magnificent Gothic cathedral, may be found a little British plant, which, when it first appears above the ground, which it does in the beginning of February, looks very much like asparagus. Its flowers open about the latter end of February or the beginning of March; and, strange to say, they grow from the centre of the leaves, and are succeeded by bright red berries, which also grow from the middle of the leaves, and which have a most singular appearance, as they seem as if they had decouped these by seei.

leaves, and which have a most singular appearance, as they seem as if they had dropped there by accident, so nnatural does it appear that they should grow in such a position. This plant is called butcher's broom (Rúscus aculettus), because butchers used formerly to hang bunches of it over their meat to keep away the flies; as, from the hardness of the leaves and their sharp points, which are as prickly as those of the holly, they wound the large flies, which are most injurious to meat, whenever they approach them. In Germany, the plant is called mouse-thorn, because it is used in cupboards and pantries to put over cold meat, butter, and other articles of food, which are occasionally attacked by mice, to keep these little animals away; as, when they have once pricked their noses with the sharp points of the butcher's broom, they never venture points of the butcher's broom, they never venture near the place again. The botanic name of the plant (Rúscus) is derived from two Celtic words,



BUTCHER'S BROOM.

Signifying box holly.

The warmth of February is seldom sufficient to hatch the eggs of the moths and butterflies, except in some instances where the eggs have been deposited in situations fully exposed to the sun. The water heetles, at the begin-



posited in situations fully exposed to the sun. The water heetles, at the beginning of winter, generally retire to the mud at the hottom of the ponds, where they remain till the frost is all goue. The ground beetles (*Cárabus*), on the contrary, generally adhere by their claws to the underside of a stone, which serves for their winter retreat, their backs being next the ground: a strange posture, which, how ever, is no doubt dictated to them by instinct for some admirable purpose which we do not for some admirable purpose which we do not yet clearly understand, but which, perhaps, may be, as Messrs. Kirby and Spence seem to suppose, intended to defend them from the wet. Sometimes a number of these heetles are found crowded together as if to keep each are found crowded together as if to keep each other warm. In all cases, the ground heetles appear to winter in a perfect state, and in places whence they can easily emerge whenever a few fine days incline them to do so. Thus, they are frequently seen in February, or, in fact, whenever a few warm days have given the first indications of spring. The ground beetles are so called because they are very seldom seen except on the ground. Most of the species, indeed, are incapable of flying, as they have only the rudiments of wings; and those that have wings very rarely make use of them, as they are generally too short and too weak for the purposes of flight. The insects are, however, very active, run-The insects are, however, very active, running away with the greatest quickness when

The insects are, however, very active, running away with the greatest quickness when alarmed, and hiding themselves in the ground and under stones. They generally shun the light, coming abroad only in the evening, and then preying voraciously upon other insects, or, when these are not to be procured, on their own species. Whenever one of the ground beetles is injured in any way, or appears feeble or iil, the others are sure to attack him and devour him. When taken in the hand, they eject a drop of very acrid liquor, which has a very strong disagreeable smell, and which burns the hand like caustic, leaving a black or brownish stain which it is very difficult to efface. The grubs of these insects are found generally in rotten wood, and they differ from many other kinds of grubs in having six scaly feet, and remarkably strong laws, with which they seize any caterpillars that are so unfortunate as to fall in their way. Réammur, a French naturalist, has given us an account of the voracity of one of these grubs that is perfectly terrific. He says, that with its scaly pincers it will attack a caterpillar, and burying its head in the body, "notwithstanding the writhing of the sufferer, will persevere till the whole is devonred. The largest caterpillar is hardly sufficient for one day's nourishment; and it will eat several in the same day, when they are to be found." These grubs are so gluttonous that when they have an opportunity, they eat so much that the skin appears ready to crack. This inordinate appetite, however, does not always go unpunished; for sometimes when the largest of the grubs are unable to move from repletion, they are attacked by the young and active of their own species, and devonred. After giving such an instance of their barbarity, it is but fair to add, that they are highly respected in France for the good they do in destroying the grub of the cockchafer, a most destructive insect; which, in France particularly. Is considered to destroy more plants than nearly all the other insects put together.



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8	F	O. S. Matthias	$\parallel 6$	34	11	-2	$33\frac{3}{1}$	5 50	3 3	9 7	59	191	Afternoon				24		9 30	10 15	67
9	S	Rigel souths 6h 0m P.M.	6	31	10	47	34	5 51	4 2	2 8	47	20	1 15				25		10 55	11 35	68
10	S	4TH S. in LENT.	6	28	10	31	$34\frac{1}{5}$	5 53	5	0 9	34	213	2 14				26		No Tide.	0 10	69
11	M	Beta Tauri souths 6h 2m	6	26	10	15	343	5 55	5 3	1 10	21	241	3 18				27		0 38	1 0	70
12	Tu	St. Gregory	6	23	9	59	351	5 57	6	011	7	271	4 22				28		1 20	1 40	71
13		Alpha Orionis souths 6h 23m	6	21	9	43	$35\frac{1}{4}$	5 58	6 2	7 11	53	313	5 29				Ō		2 0	2 20	72
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22	F	Camb. Term ends	110	1	1	5	$39\frac{1}{4}$	6 14	11 4	1 7	41	$ 57\frac{1}{2} $	2 44		1111		9		7 55	8 35	81
23	S	Ox. Term ends	5	59	6	46	$39\frac{1}{2}$	6 15	Afterno	on, 8	39	$ 55\frac{1}{2} $	3 35		3	The Mars	10		9 20	10 5	82
24	S	PALM SUNDAY	5	57	6	28	$39\frac{3}{4}$	6 17	2	$3 \mid 9$	35	$ 52\frac{1}{4}$	4 19				11 12		10 50	11 35	83
25	M	Annun. Lady D.	5	54	6	9	$ 40\frac{1}{4} $	6 18	3 2	0 10	30	48	4 54				12		No Tide.	0 10	84
26	Tu	P. Geo. Will. b.	5	52	5	51	403	6 20	4 3	7 1 1	22	433	5 26				13		0 40	1 6	85
27	W	Procyon souths 7h 12m P.M.	5	50	5	32	41	6 22	5 5	4 Mo	rning.		5 54						1 30	1 55	86
28	TH	Maunday Thurs.	5	48	5	13	411	6 24	7	$9 \mid 0$	13	383	6 19	1			15		2 15	2 40	87
29	F	GOOD FRIDAY	5	45	5	55	413	6 26	8 2	$3 \mid 1$	2	1 10	6 43			_	16		2 55	3 15	88
30	S	Pollux souths 7h 5m P.M.	5	-		36	421	6 28		3 i	51	293	7 11	1			17		3 35	3 55	89
31	5	EASTER SUNDAY	111				421	_	11	9 2	39	-04	7 38	11-		-	18		4 13	4 30	1 4
	~		110	**		10	3	00	10 0	2 2	, 09	20	7 30				0		1 7 10	1 00	1

MARCH.

THE SUN is situated south of the Equator till the 20th, and north of the Equator from the 21st. He is in the sign Pisces till the 20th, having been in that sign 29 days, 23 hours, and 58 minutes. On the 20th, at 11h, 3m. P.M., he cuters the 29 days, 25 nours, and 58 minutes. On the 20th, at 11h. 3h. P.M., he enters the sign Aries (the Ram), and Spring commences. He rises on the 3d at the E. by S., and on the 23d at the E. by S., and on the 23d at the E.; he sets on the same day at the W. by S., and at the W. points of the horizon. On the first day he is 94,199,000 miles distant from the Earth. His times of southing, in common clock time, and his height above the horizon expressed in degrees at the same time, are shown on the Calendar pages in curry, north

the horizon expressed in degrees at the same time, are shown on pages in every month.

The Moon is in Virgo on the 1st and 2d; in Libra on the 3d and 4th; in Ophiuchus ou the 5th and 6th; in Sagittarius on the 7th and 8th; in Capricornus on the 9th and 10th; in Aquarias on the 11th and 12th; in Pisces on the 13th; moving on the boundaries of Pisces and Cetus on the 15th and 16th, and on those of Cetus and Aries on the 17th; in Taurus on the 18th and 19th; crossing the Milky Way during the evening hours of the 20th, being in part of Orion; in Gemini on the 21st and 22d; in Canceron the 23d and 24th; in Leo on the 25th and 26th; in Virgo from the 27th to the 30th; and then in Libra till the end of the month.

She is above the horizon when the Sun is below, during the

She is above the horizon when the Sun is below, during the morning hours at the beginning and at the end of the month; and

during the evening hours from the 15th to the 26th.

She is south of the Equator from the 1st to the 15th. Her greatest south declination is on the 7th; she is on the Equator of the 15th; is at her extreme north declination on the 21st, and

again on the Equator on the 28th, and going south.
She is uear Mercury on the 11th; Venus on the 14th; Saturn
on the 15th; Uranus on the 16th; Mars on the 21st; Jupiter
on the 26th; and Saturn on the 31st.

on the 26th; and Saturn on the 31st.

Mercury is in the constellation Aquarius till the 6th; in Capricorous from the 7th to the 10th; in Aquarius again from the 1th to the 25th; and in Pisces from the 26th.

He is a morning star all the month, and rises on the 1st at 5th. 52m., on the 10th at 5th. 47m., on the 20th at 5th. 39m., and on the last day at 5th. 27m.; these times being 56m., 41m., 26m., and 14m. before the times of sunrise respectively. He is not very favourably situated for observation. On the 14th, he rises near the E.S.E.; and towards the end of the month, near the E. by S. points of the horizon. He is at his greatest W. elongation on the 5th; and is near the Moon on the 11th. He moves eastward among the stars during the mouth. (See the diagram in last month, exhibiting his path in the heavens.)

Venus is in the constellation Aquarius till the 4th, and in that of Pisces from the 5th. She is an evening star towards the end of the month, and sets on the 15th at 6th. 14m. P.M., and on the 31st at 7th. 6th. P.M., at the W. point of the horizon. She moves eastward among the stars; is in superior conjunction with the Sun on the 3rd; is near the Moon on the 14th, and Saturn on the 25th. She

the Sun on the 3rd; is near the Moon on the 14th, and Saturn on the 25th. She is not yet favourably situated for observation. The annexed diagram shews her path among the stars, and her relative position to them at different times. Her

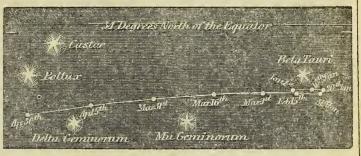
PATH OF VENUS FROM MARCH 1 TO APRIL 30, 1850.

telescopic appearance is that of a complete circle, of the same dimensions as in

January.

Mars is in the constellation Tarrus till the 9th, on which day he enters Gemini. He is crossing the Milky Way till the 20th, on which day he is at its W boundary. He is an evening star, and sets on the 1st at 3h. 41m. A.M.; on the 15th at 3h. 2m. A.M.; and on the last day at 2h. 31m. A.M., midway between the N.W. by W. and the N.W. bounds of the horizon. He moves eastward among the stars, and is uear the Moon on the 21st. His allitude above the horizon when he souths on the 1st is 6401, and on the last day 640. The annexed diagram shews his path among the stars.

PATH OF MARS FROM JANUARY 1 TO APRIL 30, 1850.



Scale, 12 degrees to one inch

JUPITER is in the constellation Leo throughout the month; he rises before JUPITER is in the constellation Leo throughout the month; he rises before the Sun sets. He sets after the Sun rises till the 18th, at the time of sunrise on the 19th, and before the Sun rises after this day, at the W. by N. point of the horizon: He rises on the 1st at 61. 11m. P.M., and on the last day at 3h. 53m. P.M. He souths at an altitude of 44°½ on the 1st, and of 45°½ on the last day. He moves slowly westward among the stars, and is near the Moon on the 26th. His motion among the stars during this month is shewn in the diagram in May. JUPITER'S SATELLITES.—The Immersions of the 1st, 2d, and 3d, and an Emersion of the 2d and another of the 4th are visible. The relative position of the Satellites to Jupiter at the instant of the eclipse is shewn in the annexed diagram, as viewed through an inverting telescope.

RELATIVE POSITION OF EACH SATELLITE TO JUPITER AT THE TIME OF IMMER-SION OR EMERSION.



Scale, 21 degrees to one inch.

PERIGEE ..

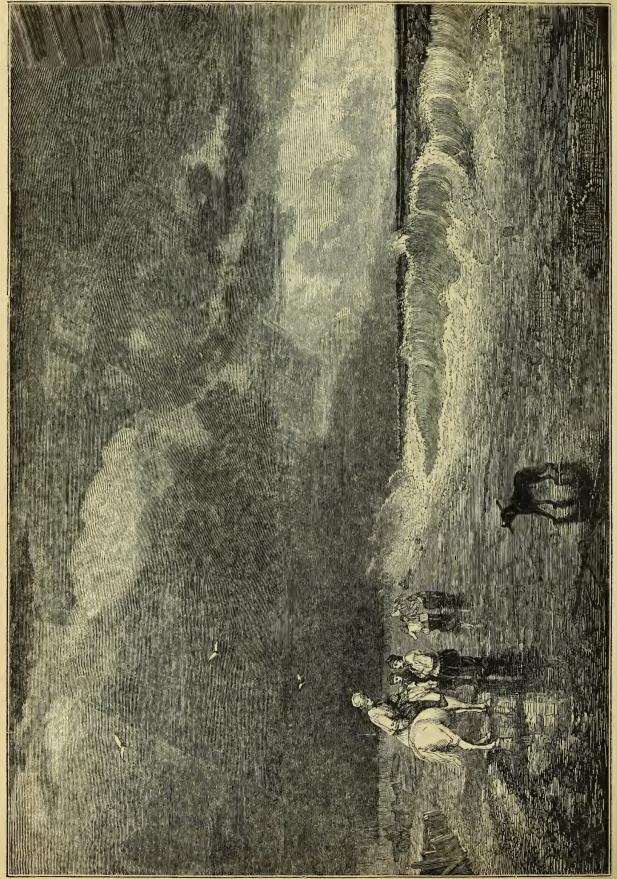
3rd Sat. 4th Sat. 1st Sat. 2nd Sat.

SATURN is in the constellation Cetns throughout the month; he is visible SATURN is in the constellation Cetns throughout the month; he is visible for a short time after sunset till towards the end of the month, and sets at a point a little N. of W., at Sh. 3m. on the 1st, at 7h. 16m. p.m. on the 15th; and with the Sun on the 30th. He souths at an altitude of 40° nearly. He is near the Moon on the 15th; Yeuns on the 25th; and is in conjunction with the Sun on the 31st. For his path in the heavens, see the diagram in September. URANUS is in the constellation Pisces throughout the month; he sets midway between the W. by N. and W.N.W. points of the horizon, on the 1st at 9h. 42m. p.m., and on the last day at 7h. 52m. p.m. He is moving slowly eastward among the stars, and is near the Moon on the 16th.

NEPTUNE rises on the 1st at 6h. 38m. A.M.; on the 15th at 5h. 44m. A.M.; and on the last day at 4h. 42m. A.M.

6 42 6 56

s of the onth.) YI	MES OF T	THE PLAN			OR	JU	PITER'S	SATELI	ITES.		0	CCULTAT	IONS	OF STARS	BY TE	IE MOON	
Days	Mercury.	Venus.	Mars.	Jupiter.		Neptune.	ist	Sat.	_ !	2nd. Sat		amea of	he Stars.	Magni- tude.	limes of disa ance & re-a ance of the	ppear-	limb of	Between what Latitudes visible.
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										4th Sat		differen	Caneri		24 0 34 .	А.М.	Dark	90° N.
TI	MES OF CI	HANGES of	OF THE SM	OON,	.		:	RIGHT	ASCENS	ions 4	AND DE	CLINA	rions of	F TH	E PLANET	S.		
An	d when she	is at her	greatest di	stance	# MI	ERCURY.	VEN	US.	MAI	RS.	JUPI	TER.	SATU	RN.	URAN	vus.	NEPT	UNE.
(Ap	ogee}, or at a the Earth	her least di	istance (Pe	rigee),	Rig Ascer			Decli- nation South.	Right Ascension	Decli- nation North,	Right Ascension	Decli- nation North.	Right Ascension	Decl natio Nort	n Assension	Decli- nation North.	Ascension	Decli- nation South.
NE F1b	ST QUART W MOON ST QUART LL MOON	13 TER 21	3H. 5M. 11 17 3 58 11 26	P.M. P.M. A.M. P.M.	11 21	4m 16° 32 24 15 58 47 14 47 13 2	23 12 23 35	9° 4′ 6 41 4 12 1 41	5 45	26 0	11h, 22n 11 20 11 18 11 15	5° 41′ 5 56 6 12 6 27	0h. 30m 0 32 0 34 0 36	0° 4 1 1 1 1 3	1 1 30 6 1 31	8° 44' 8 50 8 55 9 1	22h.27m 22 28 22 29 22 29	10° 27′ 10° 23 10° 19 10° 15



NOTES ON NATURAL HISTORY.-MARCH.

NOTES ON NATURAL HISTORY.—MARCH.

The weather in March is generally more capricions than at any other season of the year; as in this month spring and winter appear contending for the victory, and cold winds, accompanied perhaps hy frost and snow, are followed by gleams of sunshine, and sometimes by days as hot as those in the middle of summer. Violent storms are also frequent at this season, particularly about the vernal equinox, and for a week or two before and after that season. The storms in England, however, are but trivial compared with those of America; and one which occurred in that country just at the breaking up of winter is so remarkable, that an account of it was published some years ago by Mr. Richard Taylor, of which the following is an abridgement. This ice-storm occurred in the year, but at the earliest commencement of spring a thaw took place, and in the open clearings all traces of snow suddenly disappeared; the birds began to sing, and the mosquitoes came out of their hiding-places and danced in clusters in the sunshine. At night a heavy rain set in, which descended in torrents, and was accompanied by such a piercing wind that it froze as soon as it touched the trees and the ground, so as to envelope every object in a thick coating of transparent ice. In the morning the scene surpassed all description: the ground looked like an enormous lake frozen quite hard; and the trees all seemed as though they had been formed of glass. The heavy foliage of the hemlock and spruce firs was titerally incased in solid masses of ice, and the smallest twig or blade of grass, heing surrounded by ice more than an inch thick, resembled the vegetable substances which sometimes occur in masses of crystal. While all was still, the scene was one of glittering magnificence; hut when a wind arose it became terrific. The tall trees drooped and swung heavily, weighed down by the masses of solid crystal which the hranches had to support, and as these struck against each other, they shivered and sent down avalanches of ice of solid crystal which the hranches had to support, and as these struck against each other, they shivered and sent down avalanches of ice. On the succeeding moruing, the limbs of the trees began to give way under such an unusual load. Every where around was seen and heard the crashing of the topmost branches, which fell to the earth with a noise like the breaking of glass, yet so loud as to make the woods resound. As the day advanced, instead of branches, whole trees began to fall; and, during twenty-four hours, the scene which took place was as sublime as can well he conceived. There was no wind perceptible, yet, notwithstanding the calmness of the day, the whole forest seemed in motion—falling, wasting, or crumbling, as it were, piecemeal. Crash succeeded to crash, until at length these became so rapidly continuous as to resemble the incessant discharges of artillery; gradually increasing, as if at first from the irregular firing at intervals of the outposts, to the uninterrupted roar of a heavy cannonade. Pines of one hundred and fifty and one hundred and eighty feet in height came thundering to the ground, carrying others hefore them. Groves of hemlocks were hent to the ground like reeds; and the spreading oaks and towering sugar maples were uprooted like stubble, and often without giving a moment's warning. Under every tree was a rapidly accumulating debris of displaced limbs and branches; their weight increased more than tenfold by the ice, and crushing every thing in their fall with sudden and terrific violence. Altogether, this spectacle was one of indescribable grandeur. The roar, the cracking and rending, the thundering fall of the uprooted trees, the startling unusual sounds and sights produced by the descent of such masses of solid ice, and the suddenness of the crash when a neighbouring tree gave way, all together presented a scene not easily forgotten. Yet all this was going on in a dead calm, except at intervals a gentle hreeze from the south-east slightly waved the topmost pines. Had the wind fr

were the greatest sufferers; and it seemed remarkable that the deciduous trees should be less able to hear the additional burtben than the heavily laden evergreens. The branches of the oaks rapidly gave way, while the thickly encased foliwhile the thickly encased foliage of the hemlock spruce fir hung drooping around the stems, upon their long pliant branches, until they appeared like a solid mass, or monumental pillar of ice. The weight of the trees was so prodigiously increased by the load of ice they had to sustain, load of ice they had to sustain, that a branch of hemlock spruce which weighed twenty pounds when covered with ice, weighed only one pound when the ice was melted. The scene of desolation which presented itself after this "ice-storm," Mr. Taylor describes as heigh, most extractionary. within the limits of fifteen acres of forest fifty of the largest trees were overthrown, besides an immense number that had their hranches that had their hranches broken. Roads were completely stopped up by the falling timber. Waggons, slades, and sleighs were necessarily abandoned, and the horses, in some instances, with difficulty saved. In the course of a few days, however, a thaw, accompanied hy heavy rain, completely cleared the drooping forest of the remains of its unwonted covering.

unwonted covering.

As many birds build their nests in February, of course young hirds are abundant in young aircs are abundant in the month of March; and as, when the weather happens not to be particularly warm, there are not so many cater-pillars as in summer, the parent birds are frequently obliged to go to a considerable



distance to obtain food for their young; and, as the young birds are thus left comparatively unprotected, they frequently fall victims to some of the many enemies hy which they are surrounded. The parent birds, also, from the intentness with which they are surrounded. The parent birds, also, from the intentness with which they pursue their occupation, frequently run into dangers which, under other circumstances, they would have avoided, and are ponneed nop by the sparrow-hawks and other birds of prey, which seem instinctively to know that it is a favourable moment for their attacks. In some cases the unfortunate birds appear to see their danger, but to be unable to avoid it; and in the "Journal of a Naturalist" a fact is related which seems to prove that the powers of some of the smaller birds are completely subdined by the presence of an enemy:—"4 beantiful male builfinch," says Mr. Knapp, "that sat pecking the buds of a blackthorn by my side, when I was overlooking the work of a labourer, suddenly uttered the instinctive moan of danger, but made no attempt to escape into the bush, seemingly deprived of the power of exertion. On looking round, a sparrow-hawk was observed on motionless wing, gliding rapidly along the hedge, and, passing me, rushed on its prey with undeviating certainty."

The Winter Green (Pypola) is an elegant little plant, which grows wild in the north of England and in Scotland, but which it is very difficult to cultivate. One species is occasionally found in gardens, but that which has cut leaves is quite a wild denizen of the woods, which resists every attempt at cultivation. The flower is very pretty, as it is white with a yellow centre, and the petals have a solid wax-like appearance, somewhat like those of the camellia.

In March, the meadows in some situations are gay with daffodils, the wild flowers of which are, perbaps, even more splendid than the cultivated varieties, though they are much less durable. Shakespeare speaks of the daffodil in the beautiful lines on the flowers of spri

That come before the swallow dares, and take the winds of March with beauty; Violets dim, But sweeter than the lids of Juno's eyes, Or Cytherea's breath; pale Primroses, That die unmarried, ere they can behold Bright Phoebus in his strength; bold Oxlips, and The Crown Imperial.

Herrick has also addressed the following lines to the daffodil :--

Fair daffodils, we weep to see Fair dafödlis, we weep to see
You haste away so soon;
As yet the early rising sun
Has not attained his noon.
Stay, stay,
Until the hastening day
Has run
But to the evening son;
And, having pray'd together, we
Will go with you along! We have short time to stay, as you;
We have as short a spring,
As quick a growth to meet decay,
As you, or anything:
We die
As your hours do; and dry
Away,
Like to the summer's rain,
Or as the pearls of morning dow,
Ne'er to be found again.

In the gardens are now ahundance of crocuses of various kinds; mezereons,

In the gardens are now ahundance of crocuses of various kinds; mezereons, pink and white; the spurge laurel, one kind of which (Daphne portica) has fragrant flowers; and abundance of violets. The trees are beginning to come into leaf, particularly the willow, the laburnum, and the blae; and the horse-chesting begins to open its buds, the large scales enclosing which crack and fall off in such quantities that they may be gathered up with the hand from under the trees. The buds of the elm also throw off their scales when the leaves first open in spring. Among the other trees which come early into leaf may be mentioned the aspen and the white poplar.

The alternations of bright sunshine and rain which are common in March are extremely favourable to the appearance of gnats and other similar insects. The first of these that appear are what are called the winter midges (Trichochera hyemäits). "These delicate little creatures may often be seen throughout the winter and early spring months assembled in troops, alternately rising and falling with rapid revolutions, in some sunny nook, even though the ground may at the time be covered with snow." As the spring advances, these midges are succeeded by others of a different species; and as the weather becomes warmer the tring gnats themselves are generally so rapid in their movements, and so much dreaded whenever they appear, that very few people are aware of the delicacy and elegance of their forms. Even the sting is very curiously formed. The sucker which pierces the skin is enclosed in a sheath, which folds up as the sucker enters into the flesh: the sucker of the gnat bas six lancets, and it thus inflicts a severe though minute wound, the pain of which is increased by an

inflicts a severe though minute wound, the pain of which is increased by an acrid liquor injected into it. When a gnatis examined under a microscope, it will be found beautifully and delicately formed; and those who will take the troable to watch the operations of the

formed; and those who will take the trouble to watch the operations of the female, when she is about to make her nest, will be very much struck with the ingenuity and admirable instinct which this little creature displays. The eggs of the gnat are pointed at the upper end and much broader below, and they are so heavy that if laid singly in the water they would sink to the bottom. The difficulty, therefore, is to contrive some mode of keeping them floating; and this the gnat performs by making her eggs into a kind of boat-shaped raft. To perform this the mother gnat fixes herself by her fore-legs to a floating leaf, hrauch, or anything else that may be in the water, with her body resting on the surface, except the last ring of her tall, which is a little raised; "she then crosses her two hind legs in the form of the letter X, the inner opening of which is intended to form the scaffolding of her structure. She accordingly brugs the inner angle of ber crossed legs close to the raised part of her body and places in it an egg, covered, as is usual among insects, with a glutinons fluid. On each side of this egg she places another, all which adhere firmly together, by means of their glue, and form a triangular figure, which is the stern of the raft. She proceeds in the same manner to add egg after egg in a vertical (not a horizontal) position, carefully regulating the shape by her crossed legs; and others of the same manner to add egg after egg in a vertical (not a horizontal) position, carefully regulating the shape by her crossed legs;

fully regulating the shape by her crossed legs; and, as her raft increases in magnitude, she pushes the whole gradually to a greater distance; and when she has about half finished she uncrosses her legs and places them parallel, the angle being no longer necessary for shaping



FEMALE GNAT DEPOSITING HER EGGS.

the hoat. Each raft consists of from two hundred and fifty to three hundred and fifty eggs, which, when all laid, float on the water secure from sinking, and are finally abandoned by the mother. They are hatched in a few days, the grmbs is uning from the lower end; but the boat, now composed of the empty shells, continues to float till it is destroyed by the weather.



-		1		SUN.			MOON.					
M	W	ANNIVERSARIES, OC.		Souths.			Souths.		DURATION OF	MOONLIGHT.	HIGH WATER	1. 6
D	D	CURRENCES, FES.	RISES.	After 12 the soul	SETS.	Rises.	e pt	Sers	Before Sunrise.	After Sunset	AT LONDON BRIDGE.	y of Year
		ATTALIS, &C.	.413201	After 12 o'Clock.	SELS.	Afternoon		Morning.	O'Clock.	O'Clock. 8h. 9h. 10h.	1	Day the Ye
-			н. м.	M. s. Deg.	H. M.	н. м.	н. м. Deg.	II	I I I I I I I I I I I I I I I I I I I	William Str. 10h.	Morning Afternoon	
1	M	Easter Monday	5 38	3 59 43	6 31	11 43		в. м.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4 50 5 5	01
2	Tu	Easter Tuesday	5 36	$34143\frac{1}{3}$	6 33	Morning.	$4 \ 16 \ 20 \ 1$	0 0	26			91
3	W	Rich. Bp. Chich.	5 34	0 00 .09	6 35		5 4 194	8 45			5 25 5 40	92
4	TH	St. Ambrose	5 32	$\frac{3}{3} \frac{25}{5} \frac{43}{4} = \frac{1}{4}$		0 41	4	9 25	21		6 0 6 20	93
5	F	Sirius souths 5h 44m P M.			6 37	1 33	$\frac{5}{3}$ $\frac{52}{4}$ $18\frac{3}{4}$	10 11			6 40 7 5	94
6	1 = 1		5 29	$\frac{2}{3}$ $\frac{47}{3}$ $\frac{44\frac{1}{2}}{3}$	6 38	2 19	$6\ 4019\frac{1}{2}$	11 4	23		7 30 8 0	95
7		Old Lady Day	5 27	$2 \ 30 \ 45$	6 40	2 58	$7 \ 27 \ 20\frac{3}{2}$	Afternoon	24		8 45 9 25	96
6		LOW SUNDAY	5 24	$2 12 45\frac{1}{4}$	6 41	3 31	8 14 23	1 2	25		10 10 10 45	97
0	2.73	Fire Insur. due	5 22	$1.5545\frac{3}{4}$	6 43	4 2	9 0 26	2 7	26		1.1 95 At	98
9	IU	Castor souths 6h 15m r.m.	5 20	1 39 46	6 44	4 27	9 46 293	3 14	27		No Tide. 0 25	99
10	W	Ox. & C. T. beg.	5 18	$1 22 46\frac{1}{9}$	6 45	4 52	$10 \ 32 \ 33^{\frac{4}{3}}$	4 23	28			_
11	TH	Length of day 13h 31m	5 15	$1 - 6.46\frac{3}{3}$	6 46	5 15	$11 \ 18 \ 38 \frac{1}{4}$		29			100
12	F	Day breaks 3h 8m	5 13	0 50 47	6 48		0004	5 33			- 0	101
13	S	Twilight ends 8h 57m	5 11	0 31 471	5 50		Afternoou 43	6 45			1	102
14		2ND S. aft. EAST.	5 9	0 10 4-3		$\begin{array}{ccc} 6 & 6 \\ \end{array}$	$0.56 47\frac{1}{2} $	8 0				103
15	M	Easter Term beg.	5 7	0 104/	5 52	6 34	$\frac{1}{2}$ $\frac{48}{51}$	9 15				104
16		0	5 7	0 3 484 (5 53	7 7	$\frac{2}{42} \frac{42}{54} \frac{3}{4}$	10 29	3		3 50 4 5	105
17	¥ ¥ 7		0	o'clock 482		7 47	3 39 57	11 38	4		4 25 4 45	106
18	777	Length of night 10h 5m	5 2	0 26 49 (8 35	4 37 581	Morning.	5		5 5 5 30	107
19	77	Pollux souths 5h 50m P.M.	5 0	$0.4049\frac{1}{4}$	5 59	9 33	5 36 58	0 40	6		5 50 6 15	108
-	S	Alphage Alpha Hydræ souths 7h 26m	4 58	$0.54[49\frac{3}{4}]$	7 0	10 39	6 34 561	1 34				109
20		r.M.	4 56	1 7 50 7	2	11 51	7 30 53	2 19	8			110
21		3RDS. aft. EAST.	4 55	$1 \ 20 \ 50\frac{1}{4}$	4	Afternoon	8 23 493	2 57	8 9			111
22			4 53	$1 \ 32 \ 50 \frac{3}{4} \ 7$	6	2 21	9 15 451	3 27	10		0 0 00 .	112
23	IU	St. George	4/51	1 44 51 7	8	3 37 1	0 5 403	3 54	11			113
24	W	Beta Leonis souths 9h 31m	4 49	1 56 51 1 7	10	4 51 1	$0.5436\frac{1}{2}$	4 21	12			
25	TH.	St. Mark Evan.	4 47	$2 751\frac{3}{7}$	11	6 31	$14231\frac{1}{2}$	4 46	13		0 0 -0 -	114
26	\mathbf{F}	[Princess Alice M. horn, 1843.	4 45	2 18 52 7	13	7 14 M	forning.	1				115
27	S	Spica Virgiuis souths 10h	4 43	$\frac{2}{2}$ $\frac{28}{52}$ $\frac{1}{7}$	14	8 23	0 1	5 10	15		-	116
28	S	4	4 41	2 37 52 7	16		- 2	5 36	16		0 _ 0 0 -	117
29	M	Arcturus souths 11h 38m	1 39	2 47 53 7	17 1		1 18 24	6 6				118
30	Tu	Regulus souths 7h 27m	1 37	$\frac{2}{2} \frac{47}{55} \frac{33}{53} \frac{1}{47}$	10	0 31	2 7 211	6 40			3 45 4 0 1	19
		P.M.	37	$2 5553\frac{1}{4}7$	19)1	1 25	$2 56 19\frac{1}{2} $	7 18	18		4 20 4 40 1	20
	10											

APRIL

The Son is situated north of the Equator, and on the 20th, at 11h. 16m. a.m., passes from the sign Aries to that of Taurus (the Bull), having heen in the former sign 30 days, 12 hours, and 13 minutes. He rises on the 8th, at E. hy N.; and on the 28th, at E.N.E. He sets on the same days near W. hy N. and W.N.W. On the 1st he is 95,003,000 miles distant from the Earth.

On the 1st he is 95,003,000 miles distant from the Earth.

The Moon is in Ophiuchns on the 1st and 2nd; in Sagittarius from the 3d to the 5th; in Capricornus on the 6th and 7th; in Aquarius on the 8th and 9th; in Cetus, and moving near the houndaries of Cetus, Pisces, and Aries, from the 9th opart of the 14th; in Taurus on the latter part of the 14th to the 16th; in part of Orion, and crossing the Milky Way, during the early hours of the 17th; in Gemini on the 18th and 19th; in Cancer on the 19th and 20th; in Leo on the 21st and 22nd; in Virgo from the 23rd to the 26th; in Lihra on the 27th and 28th; in Ophiuchus on the 29th; and in Sagittarius, on the evening of the last

day.'

She is ahove the horizon when the Sun is helow, during the morning honrs, for some days at the heginning and at the end of the month; and during the eveuing hours, from the 15th to the 27th.

She is at her extreme sonth declination on the 4th; on the Equator on the 11th; at her greatest north declination on the 19th; a second time on the Equator, on the 2th; and is south of the Equator till the end of the month.

She is near Mercury and Saturn on the 11th; Uranus on'the 12th; Venus on the 13th; Mars on the 18th; and Jupiter on the 22nd. Her times of rising, southing, and setting, together with her height expressed in degrees at the times of southing, are given on the calendar pages for every day in the year. Her times of being full and new are given in every month at the foot of the second page of every month. page of every month.

OCCULTATION OF ALDEBARAN BY THE MOON, ON APRIL 15, 1850.





By direct vision, or as seen through a telescope which does not invert.

As seen through an inverting telescope.

The star will disappear at the dark limb of the Moon, and will reappear at the

The star will disappear at the dark limb of the Moon, and will reappear at the bright limh; the former will take place at 8h. 3m P.M., and the latter at 8h. 5m. P.M. The disappearance may he seen without the assistance of a telescope.

MERCURY is in the coustellation Pisces till the 4th; in Cetus from the 5th to the 11th; in Pisces again from the 12th to the 16th; in Aries from the 17th to the 29th; and enters Taurus on April 30. He rises a few minutes hefore the Sun till the 16th, after which day the Sun rises hefore this planet. He sets hefore the Sun till the 18th; on the 19th, he sets 9 minutes after the Sun; on the 25th, he sets at 8h. 4m.; and on the last day, at 8h. 45m.; which times are 53 minutes, and 1h. 26m. after snnset respectively. Therefore, he is favourably situated for observation during a few evenings at the end of this month. He sets on the 22nd near W.N.W., and on the last day near N.W. hy N. He moves eastward among the stars throughout the month; and is near Saturn on the 10th, the Moou on the 18th. His path among the stars, and his relative position to them is shown in the annexed diegram, which is a continuation of that inserted in February.

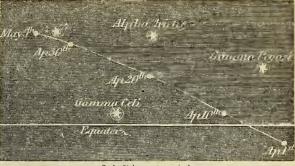
VENUS is in the constellation Pisces till the 6th; Aries from the 7th to the 26th; and in Taurus from the 27th.

She is an evening star, and sets on the 1st, at 7h. 9m. P.M.; on the 15th, at

26th; and in Taurus from the 27th.

She is an evening star, and sets on the 1st, at 7h. 9m. p.m.; on the 15th, at 7h. 54m. p.m.; and on the last day at 8h. 44m. p.m.; on the 2nd at the W. by N., and on the 17th at the W. N.W. points of the horizon. She is moving eastward among the stars throughout the month; is near Uranus on the 7th, and the Moon on the 13th. (See the diagram in last month, exhibiting her path in the heavens, and relative position to the stars near her path.) Her telescopic appearance has almost remained unchanged since January.

PATH OF MERCURY FROM APRIL 1 TO MAY 5, 1850.



Scale, 24 degrees to one inch.

Mans is in the constellation Gemini throughout the month.

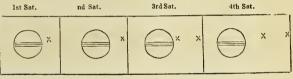
Mars is in the constellation Gemini throughout the month. He is an evening star, and sets on the 1st, at 2h. 29m. A.M.; on the 15th, at 1h. 59m. A.M.; and on the last day, at 1h. 23m. A.M., hetween the N.W. and the N.W. by N. points of the horizon. He moves eastward among the stars, and in near the Moon on the 18th; his altitude above the horizon, when he souths ou the 1st, is 64°; and on the last day, is 62°. (See the diagram in last month, showing

his path among the stars.)

JUPITER is in the constellation Leo throughout the month. He sets on the 1st at 5h. 18m. A.M.; and on the last day at 3h 15m. A.M., at the W. hy N. point of the horizon. He souths at an altitude of 45°\(2\) on the 1st, and of 40°\(2\) on the last day. He moves slowly westward among the stars, and is near the Moon on the 22nd. (See the diagram in next month for his position with respect to neighhouring stars.)

JUPITER'S SATELLITES.—A few emersions of the first and second, and an immersion and emersion of the fourth, are visible. The relative position of the satellite to Jupiter at the instant of the eclipse is shown in the annexed diagram, as viewed through an inverting telescope.

RELATIVE POSITION OF EACH SATELLITE TO JUPITER AT THE TIME OF IMMERSION OR EMERSION.



SATURN is in the constellation Cetus throughout the month. At the heginning of the month he rise, souths, and sets at the same time nearly as the Snn, and he is unfavourably situated for observation. He souths at an altitude of 41° nearly; he is near Mercury on the 10th, and the Moon on the 11th.

URANUS is in the constellation Pisces throughout the month. He is not favourable without for phonometers.

Ally situated for observation.

Nerrune rises on the 1st, at 4h. 38m. A.M.; on the 15th, at 3h. 42m. A.M.; and on the last day, at 2h. 46m. A.M., midway between the E. by S. and the E.S.E. points of the horizon.

ON THE APPARENT MOTIONS OF THE SUN, MOON, AND PLANETS.

From the monthly account of the motions of the celestial bodies, it will be remarked that the Sun, the Moon, and the planets are incessantly shifting their places. The stars, on the contrary, as has already heen remarked in previous years, maintain the same relative positions, and thus act admirably as points of reference to indicate the positions and changes of position of the other heavenly bodies hodies.

The apparent path of the Sun is from west to east; and, in his motion, he seems

(Continued on page 29.)

ję.	TI			NETS SOU E MERID		or	JUPITER'S	SATELLITES.	OCCULTA	TION	S OF STARS BY T	HE MOO	N
D tys of he Month.	Mercury. Morning.	Venus.	Mars.	Jupiter.	Saturn.	Neptune.	lst Sat. Emersiou.	ses of 2nd Sat. Im. I. Emer. E.	Names of the Stars.	Magni.	Times of disappearance & re-appearance of the Star.	MINIO OT	Latitudes
1 6 11 16 21 26 30	H. M. 11 9 11 22 11 37 11 55 Aftern. 0 35 0 51	H. M. 0 33 0 36 0 40 0 44 0 48 0 53 0 57	H. M. 5 55 5 45 5 36 5 28 5 19 5 11 5 4	H. M. 10 28 10 7 9 46 9 24 9 4 8 43 8 27	n. M. 0 6 Morning 11 31 11 14 10 56 10 39 10 25	H. M. 9 55 9 37 9 16 8 57 8 38 8 19 8 2	D. H. M. 1 9 30 P.M. 8 11 24 P M. 16 1 18 A.M. 24 9 41 P.M.	n. H. M. 1 9 22 P.M. E. 8 11 59 P.M. E. 16 2 36 A.M. E. 4th Sat. 11 10 13 P.M. I. 12 1 30 A.M. E.	Aldebaran 119 Tanri 120 Tauri Sigma Leonis	1 5 6 4	n. H. M. {15 8 3 P.M. 15 8 59 P.M. {16 6 58 P.M. {16 7 27 P.M. {16 7 26 P.M. {16 8 13 P.M. {22 6 20 P.M. {22 7 28 P.M.	Bright Dark Bright	10° N. & 83° N. 56° N. & 3° S. 1° N. & 62° N. & 62° N. & 69° N. & 6° S.
mr.	rna ar	7 4 N O D O			1		RIGHT ASC	ENSIONS AND DEC	CLINATIONS OF	тнг	PLANETS		

TIMES OF CHANGES OF THE MOON,	.д.	MIGHT ASCE	MSIONS AND DECE	INATIONS OF THE IT	JANEID.	
And when she is at her greatest distance	SE MERCURY.	VENUS.	MARS. JUPIT	TER. SATURN.	URANUS.	NEPTUNE.
(Apogee), or at her least distance (Perigee), from the Earth in each Lunation.	Right Ascension South	a Ascension nation Asc	light Decli- ra ion North. Right	Declination North. Right Ascension North.		Right Declination South.
LAST QUARTER 4D. 3H. 44M. P M. NEW MOON . 12 0 47 P.M. FIRST QUARTER 19 10 7 A.M. FULL MOON . 26 11 20 A.M. APOGEE 5 4 A M. PERIGEE 18 At Noou.	1 23h. 47m 3° 5; 6 0 20 0 11 0 55 North 16 1 32 8 4; 21 2 11 13 1. 26 2 51 17 2;	1	1. 33m 25° 27' 11h. 8m 44 25 13 11 6 54 24 57 11 5 5 24 38 11 3 16 24 15 11 2 27 23 50 11 1	7° 11' 0h. 44m 2° 18' 7° 22' 0 46 2 32 7° 32' 0 48 2 47' 7° 40 0 51 3 1 7° 47' 0 53 3 15 7° 51' 0 55 3 28	1 36 9 26 1 37 9 33 1 38 9 39	22 33 9 56 22 34 9 53 22 34 9 50



NOTES ON NATURAL HISTORY.—APRIL.

All day the low-hung clouds have dropt
Their garner'd folioess down;
All day that soft grey mist hath wrapt
Hill, valley, grove, and town.
The very ea th, the steamy air,
Is all with fragrance rife;
And grace and beauty everywhere
Are flushing into life.

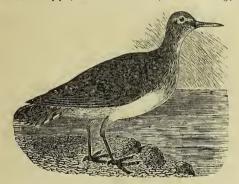
Down, down they come—those fruitful stores!
Those earth-r-jeicing drops!
Those earth-r-jeicing pours:
Then thins, decreases stops:
And ere the dimples on the stream
Have ci-cled out of sight,
Lo! from the west, a puring gleam
Breaks torth of amber light.

THESE lines admirably describe the appearance of an April day with its alternations of rain and sunshine, which seem as though nature were struggling to hake off the dominion of winter, and to welcome summer.

Many of the migratory birds return to England in this month, and especially the cuckoo, which,

Hid in some bush, now sings her idle song, Monotonous, yet sweet; now here, now there; Heraelf but rarely seen.

Other birds also make their appearance in April, and one of these, the common or the state of th sandpiper or ummer snipe, only stays from April till September "The habits of the common sandpiper." Mr. Yarrell observes, "are interesting; its actions



COMMON SANDPIPER

are lively, and it is mostly seen while running nimbly along the gravelly margins of rivers, brooks, lakes, or ponds. When on the eround it is in constant motion, flirting the tail up and down, and almost as frequently stretching out, and again withdrawing the head and neck. When disturbed and flushed, this bird utters a piping note on taking wing, which has been compared by Colones Sykes to the sounds, wheet, wheet, wheet, and Mr. Selby says, that, from the resemblance to its well-known; ote, one of the provincial names of this species is Willy Wicket." This bird feeds on worms and insects. It is seldom seen on the eashore, though it is fond of fresh water, and generally makes its nest in a hole in the bank of a stream. To efemale, when alarmed, tries all kinds of expedients to entice strangers from her nest, and, like the female lapwing, she affects lameness, or else runs with one wing hanging down as though it were broken, in order to divert the attention of a stranger from her brood. A correspoudent of the Magazine of Natural History, after stating that the common sandpiper breeds in Lancashire, adds, "and I this year started an old one from ber nest, at the root of a fir tree. She screamed out, and rolled about in such a manner, and seemed so completely disabled, that, although perfectly aware that her intentiou was to allure me from her nest, I could not resist my inclination to pursue her, and, in consequence, I had great difficulty in finding the nest again. It was built of a few dried leaves of the Weymouth pine, and contained three young ones, just hatched, and an egg, through the shell of which the bill of the young chick was just making its way; yet, young as they were, on my taking out the egg to examine it, the little things, which could not have been out of their shells more than an hour or two, set off out of the nest with as much celerity as if they had been running about a fornight. As I thought the old one would abandon the egg if the young ones left the nest, I caught them, and covering them are lively, and it is mostly seen while running nimbly along the gravelly margins of rivers, brooks, lakes, or ponds. When on the ground it is in constant motion,

In April the greater number of the wild flowers are in perfection, and, as Charlotte Smith sings,

The furze is yellow on the heath,
The hanks with speedwell flowers are gay,
The caks are budding, and beneath
The hawthorn soon will hear the wreath,
The silver wreath of May.

The sloe and the bullace are now in flower in the hedges, and the birds are husy pecking off the opening buds of the hawthorn and other trees. In the gardens the bitds generally attack the gooseberry hushes in this month, and they have no mercy on the crocuses and other spring flowers, the p-tals of which frequently look jagged and torn from the laceration of their little beaks—Towards the close of the month the wild h-art's-ease appears in the meadows, and it may, perhaps, be interesting to mention that this plant first excited the attention of Bartram, a celebrated American botanis, to the study of plants. He was walking in a field in early spring, and chancing to see a wild heart's-ease, be gathered it, and went

on, thinking on various subjects, and carelessly plucking off the petals of the flower, without being well aware of what he was doing. He then chanced to cast his eye upon the r-mnant left in his hand, and was much struck with its singu'ar appearance, as the stamens and pistil of the heart's-ease, when the petals have been stripped off, bear a considerable resemblance to a young bird when it has just issued from the shell. Bartram was so struck with this, that he gathered other flowers, and observing how curiously each was formed, he went home deeply impressed with the wonders of nature, and from that time he preerred the study of natural history to any other pursuit, and afterwards became the first botanist of America.

the first botanist of America.

In gardens in warm and yet open situations, such as the garden of the London Horticultural ociety at Chiswick, a number of beautiful plants are in flower. The spring gentian grows close to the ground, with its large bell-shaped flowers of the deepest and richest dark blue. The Maihoita, or ash berberry, forms an elegant little shrub, with bright dark green shining leaves, and a profusion of rich yellow clustered flowers. The Judas-tree (Cêrcis Siliquastrum) has a profusion of bright pink pea-like flowers, which are produced on the naked trunk and branches, appearing before the leaves. The Mapholia conspicua, or Ynlan-tree, produces its large lily-like flowers, also before the leaves, and they appear in such profusion that the tree is sometimes completely covered with them, as if with a sheet. There was a large tree of this kind in a nursery at Kensington, near the entrance to Kensington Gardens, which, in April, 1827, was covered with upwards of eleven hundred flowers, and had a very singular effect when seen from the road on a moonlight night, as it looked like a white pyramid among the surrounding trees, so completely was it covered with blossoms. The Wistària, or Glýcine sinénsis, is generally in all its beanty, with its racemes of shaded like flowers, in shape like those of the laburnum, which it generally precedes by a few days, the laburnum being followed by the Robbina Pseud-Accia, the flowers of which are of the same shape, but of a different colour, being white slightly tinged with pink. Of all these trees, the Wistària is perhaps the most beautiful, as its flowers are delicately shaded; they are also slightly fragrant, and they appear very early in spriur, a second crop being often seen in Angust or September. Some varieties of the laburnum are also fragrant, and others are remarkably beautiful, from the great leugth of their drooping racemes of flowers. The Robbina or False Accala, is the least beautiful of the three, though it also varies occasionally, a d is sometime

Among the numerons insects that are found in gardens in April, may be mentioned the cuckoo-spit, or froth-fly, or frog-hopper; for by all these names is this curious insect popularly known. The names of cuckoo-spit and froth-fly both allude to the peculiar habit of the insect, when in the larva state, of enveloping itself in a kind of frothy secretion, somewhat resembling saliva, and which, in-

deed, was formerly sui posed to be the saliva of the cuckoo, it being found on the young shots of plants just about the time that the cuckoo is heard in the woods. The frothy se-cretion is supposed to be intended to preserve the tender body of the insect from the overpowering effects



to preserve the tender body of the insect from the overpowering effects of the sun, as it has been observed to be produced in exact proportion to the heat of the weather. It is not known exactly how the froth is produced, but it is evidently only water, to which the insect gives its frothy appearance; as, when by any charce it becomes condensed, it drops like rain from the trees on which the insect is found. It is only in its larva, or infant state, that it produces the froth. The larva and the pupa resemble the perfect insect, except that the larva has no wings, and the pupa has very small ones. The perfect insect, however, has hoth wings and wing-cases, and it has the power of flying to a considerable distance. Sometimes, indeed, these insects are seen in 7ast multifudes on the wing. Professor Welsh states (as quoted by Messrs. Kirhy and Spence), "that one night, about eleven o'clock, sitting in his study, his attenti n was attracted by what seemed the pelting of hail against his window, which surprised him by its long continuance; he opened the window, and found the noise was occasioned by a flight of the froth frog-hopper, which entered the room in such numbers as to cover the table. From this circumstance, and the continuance of the pelting, which is so great, that, being assisted by its wings, it will sometimes leap a distance of five or six feet, which, as Messrs. Kirby and Spence observe, is more than two hundred and fifty times its own length, or as much as if a man were to take a 'eap a quarter of a mile high. This extraordinary activity appears to be principally coasioned by the great length of the thighs of the insect, when about to leap forward, places its hind thighs nearly veret, keeping them close to the body; it next witb great violence kicks them out backwards, so as to stretch the leg in a right line, and the present assistance afforded by the spines upon the ground; the spines then have the refer that, when the spines is clearly shown by the fact that, when the sincer is well as the principa lay hold of the surface, and by their pressure enable the body to spring forwards. The great assistance afforded by the spines is clearly shown by the fact that, when the insect is on glass, of which the spines cannot catch hold of the surface, it cannot leap more than six inches.

it cannot leap more than six inches.

About this season, if the buds of the rose-trees are examined just as the leaves are beginning to unfold, a little brown speck will be found attached to them here and there, looking like a seed. This is a case which conceals the larva or caterpillar of a very small moth (Timear rhodophaghtla). The larva is very destructive, and when it has devoured one leaf, it removes with its case to another. It is very small, being only a few lines long, and yellow, with a black head, and a ring of black spots round the body near to the head. When it goes into the pupa state, it only enlarges a little the case in which it lived while it was a caterpillar. The moth is very small; its body is of a silvery grey, and its upper wings are covered with small black dots. This caterpillar is most troublesome in the flower, bit where it annears on rose-trees in nots, which are intended. wings are covered with small black dots. This caterpillar is most troublesome in the flower-pit, where it appears on rose-trees in pots, which are intended for early flowering; hut though it is not a native of this country, it is now frequently found on rose-trees in the open air. Insects are very abundant at this season, probably for two reasons: first, that they can feed most easily upon the leaves when they are first developed; and, secondly, because they are wanted to feed the number of young birds which are hatched in early spring.



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MAY.

The Moon is in Sagittarius till the morning of the 3d, then passes into Capricornus, and into Aquarius on the morning of the 5th; into Pisces near midnight on the 6th; into Cetus on the morning of the 8th; and till the evening of the 1lth she is moving on the boundaries of Cetus, Pisces, and Arles. On the 1lth, at about 10h. P.M., she passes into Taurus, and crosses the Milky Way during the 14th; she enters Gemini on the 15th; Cancer on the 16th; Leo on the 17th; Virgo on the 20th; Libra on the 23d; Scorpio on the 25th; Ophiuchus, near midnight, on the 25th; Sagittarius on the 28th; and Capricornus on the 29th.

She is above the horizon when the Sun is below, during the morning hours, for a few days at the beginning of the month, and for several days at the end of the month; and during the evening hours, from the 13th to the 26th.

She is at her extreme south declination on the 1st; on the Equator on the 8th; at her extreme north declination on the 15th; on the Equator again on the 21st; and reaches, a second time this month, an extreme south declination on the 28th.

south declination on the 28th.

She is near Saturn on the 9th; Uranus on the 10th; Merchry and Venus

on the 13th; Mars on the 16th; and Jupiter on the 19th.

OCCULTATION OF JUPITER BY THE MOON ON MAY 19, 1850, AS SEEN BY A TELESCOPE WHICH





Does not invert.

Does invert.

The planet will disappear at the un-illuminated limb, and will reappear at the bright limb. To observe these phenomena, a good telescope will be necessary, as the Sun will be above the horizon at the time of their occurrence. The disappearance takes place at 6h. 32m. P.M., and the reappearance at 7h. 37m. P.M. After sunset, the planet will be seen situated north of the Moorl's price think. Moon's bright limb.

Moon's bright limb.

MEBCURY is in the constellation Taurus throughout the month.

He is an evening star, and sets on the 1st at 8h. 53m.; on the 5th, at 9h. 20m.; on the 10th, at 9h. 41m.; on the 15th, at 9h. 57m.; on the 20th, at 9h. 55m.; on the 25th, at 9h. 41m.; and on the last day, at 9h. 6m. On the 1st, the Sun sets earlier than this planet by 1h. 32m; on the 5th, by 1h. 53m.; on the 10th, by 2h. 10m.; on the 13th, 14th, and 15th, by 2h. 15m.; on the 20th, by 2h. 6m.; on the 26th, by 1h. 45m.; and on the last day, by 1h. 3m. These intervals of time are the largest in the year; and the planet is most favourably situated for observation between the 5th and the 25th, and particularly about the middle of this month. On any clear evening after sunset he may readily be seen. He sets on the 1st at N.W. by N.; and during the month he sets between this point and N.W. He is moving eastward till towards the end of the month, when he is stationary among the stars. He is near Venus on the 2d; the Moon on the 13th; and Venus again on the 22d. He is at his greatest eastern elongation on the 16th. His position among the stars will be seen in the diagram in July, which is a continuation of his path from that inserted in April. and the same again on the 22d. He is at his greatest eastern elongation on the 16th. His position among the stars will be seen in the diagram in July, which is a continuation of the path from that inserted in April.

Venus is in the constellation Taurus till the 26tb, and in Gemini from the 27th. She is an evening star, and sets on the 1st, at 8h. 48m. P.M.; on the 15th, at 8h. 48m. P.M.; on the 15th, at 8h. 48m. P.M.; on the 15th, at 9h. 28m. P.M.; and on the 31st, at 10h. 2m. P.M.; on the 7th, near the N.W. by point of the horizon.

N. point of the horizon. She is moving eastward among the stars; is near Mercury on the 2d, the Moon on the 13th, and Mercury again on the 22d. For ber path in the heavens see the diagram in next month. Her telescopic appearance is almost that of a circle, and very little larger than that shown in January. Mans is in the constellation Gemini till the 6th. On this day he passes into Cancer. He is an evening star, and sets on the 1st at th. 20m. a.m.; on the 15th, at 0h. 46m. a.m.; and on the last day, at 0h. 5m. a.m.; near the N.W. by N. till the 20th day, and at the N.W. by N. on the 21st. For his path in the heavens see the diagram in next month.

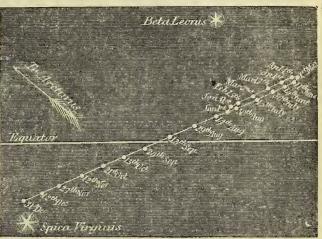
JUPITER is in the constellation Leo throughout the month. He sets on the 1st, at 3h. 11m. A.M.; and on the 1st day, at 1h. 14m. a.M.; at the W. by N. point

at 3h. 11m. a.m.: and on the last day_1 at 1h. 14m. a.m.; at the W. by N. point of the horizon. His altitude on southing is $46^{\circ}\frac{1}{4}$ on the 1st, and is 46° on the last day. He is nearly stationary among the stars till towards the end of the month, when he begins to move slowly eastward, and is near the Moon on the 19th. His path among the stars, and his relative position to stars near him throughout

the year, are shown in the annexed diagram.

JUPITER'S SATELLITES.—A few emersions of the first and second, and an immersion and emersion of the third, are visible. The relative position of the sa-

DATH OF HUDITER THROUGHOUT THE YEAR 1850.



Scale, 12 degrees to one inch.

tellite to Jupiter, at the instant of the eclipse, is shown in the annexed diagram, as viewed through an inverting telescope.

RELATIVE POSITION OF EACH SATELLITE TO JUPITER AT THE TIME OF 1M-MERSION OR EMERSION.

1st Sat 2nd Sat. 3rd Sat. rm

SATURN is in the constellation Pisces throughout the month.

He is a morning star, and rises E. by N. at 3h. 58m. A.M. on the 1st; at 3h. 6m. A.M. on the 15th; and at 2h. 6m. A.M. on the last day. He souths at an altitude of

of of outh.	TI			NETS SOL		OR	JUPITER'S S	ATELLITES.	OCCULTAT	rions	S OF STARS BY T	HE MOON.
Days the Mor	Mercury.	Venus.	Mars. Afternoon	Jupiter.	Saturn. Morning.	Neptune. Morning.	Ist Sat. Emersion.	znd Sat. Im. I. Emer. E.	Names of the Stars.	Magni- tude.	Times of disappear- ance & re-appear- ance of the Star.	limb of Latitude:
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TIMES OF CHANGES OF THE MOOD	l e			R	GHT A	SCENSIC	NS AN	ID DECL	INATIO	ONS OF T	THE P	LANETS.			
And when she is at her greatest distant		MERC	URY.	VEN	US.	MAI	RS.	JUPIT	ER.	SATU	RN.	URAN	us.	NEPTU	JNE.
(Apogee), or at her least distance (Perige from the Earth in each Lunation.		Right Ascension	Decli- nstion North.	Right Ascension	Decli- nation North.	Right Ascension	Decli- nation North.	Right Ascension	Decli- nation North.	Right Ascension	Decli- pation North.	Right Ascension	Decli- pation North.	Right Ascension	Decli- nation South.
LAST QUARTER 4D, 10H, 46M, A. NEW MOON . 11 11 9 P. FIRST QUARTER 18 3 52 P. FOLL MOON . 26 0 8 A. APOGEE . 2 At Midnight PERIOGE . 14 8 P. APOGEE . 50 5 P.	. 6 . 11 . 16 . 21	3h. 31m 4 7 4 39 5 3 5 21 5 30	20° 49' 23 14 24 38 25 7 24 53 24 3	3h. 34m 3 59 4 25 4 51 5 17 5 41	19° 16′ 20 49 22 8 23 11 23 58 24 28	7 50 8 2 8 13	23° 22′ 22 50 22 15 21 37 20 56 20 12	10 59 11 0 11 0 11 1	7° 54′ 7 56 7 55 7 53 7 49 7 43	0h. 57m 0 59 1 2 1 4 1 6 1 7	3° 42′ 3 55 4 7 4 19 4 30 4 41	1h.41m 1 43 \$1 44 1 45 1 46 1 47	10 3 10 9 10 15 10 20	22h. 35m 22 35 22 35 22 36 22 36 22 36 22 37	9° 45′ 9 43 9 42 9 41 9 40 9 39



NOTES ON NATURAL HISTORY.-MAY.

Among all the songsters of the grove at this season, one of the most delightful is the fauvette, or garden warbler. It is not very ahundant in England, but in



GARDEN WARBLER, OR FAUVETTE.

GARDEN WARBLER, OR FAUVETTE.

Belgium it is a great favourite; and it is, prohably, oftener in this country than people are aware of, as it is a very shy, timid hird, and it is very difficult to obtain a sight of it. In Belgium it is frequently kept in a cage; and its song is found very little inferlor to that of the nightingale. Some of the notes have a peculiar softness and sweetness, while others are more loud and powerful, and others remarkably quick and lively. "It first visits ns," says Sweet, "in the spring, about the latter end of April, or the beginning of May; and its arrival is soon made known hy its very loud and long song. It generally begins very low, not unlike the song of the swallow, hut raises it by degrees until it resembles the song of the blackbird, singing nearly all through the day, and the greater part of the time it stays with us, which is but short, as it leaves us again in August. In confinement it will sing nearly all through the year if it be treated well." In a wild state the fauvette is found in gardens and plantations, where it feeds chiefly on fruits, devonring only one kind of caterpillar, which, singularly enough, seems to be eaten hy no other hird, viz. the caterpillar of the cahange-hutterfly. It is said to eat as many as from six to ten of these caterpillars in one day. It is particularly fond of strawherries, and will attack cherries even before they are ripe.

hutterfly. It is said to eat as many as a construction one day. It is particularly fond of strawherries, and will attack cherries even before they are ripe.

The long-tailed titmonse generally builds in this month. These are pretty little hirds, and their nest is curiously constructed, as it generally hangs ahout five feet from the ground, and is of a very curious and singular form, ahout the size of a small melon, with a hole on one side through which the parent hird enters. The long-tailed titmice may often be seen on a fine day in May flying round and round after one another, as if they were having a game at play. They are generally found in parties of ten or more together, the hirds helonging to a brood having the habit of continuing together after they have attained their full size.

There the green thorn her silver buds Expands to May'a enlivening boam; Hottonia blushes on the floods; And where the slowly trickling stresm 'Mid grass and spiry ushes glides, Her lovely flowers the Buckbean hides.

Wound in the hedgerow's oaken boughs, The Woodbine's tassols float in air; And, blushing the uncultured Rose, Hangs high her beauteous blossoms there;

And, blushing the uncultured Rose,
Hangs high her beauteous blossoms there;

Singular as are the shapes assumed by some of the orchideous epiphytes, those of the terrestrial Orchideous are scarcely less extraordinary. These plants are abundant in woods on chalky soils, particularly in the chalk pits and on the chalk hills of Kent. The flowers of the genus Orchis are all very curiously formed: the germen, or incipient seed-vessel, is long and twisted, so as to supply the place of a footstalk to the flower; and the largest peral, which is made to point downwards, in consequence of the distortion of the germen, is hy far the most conspicuous part of the flower, and is termed the lip. It is this lip which represents so many curious forms; and sometimes it takes so closely the resemblance of an insect, as to deceive even an experienced eye. In one species, the monkey orchis, the lip is deeply cut, and the flower takes the figure of a little man or monkey dancing, with a hood over his head. In the lizard orchis, the lip is cut into three parts, the centre one of which is very long, and represents the tail of the lizard, while the two shorter ones form no bad representation of its feet. In the man orchis, the flower stem seems hung all over with effigies of little yellow men with green hats. The hee orchis, the spider orchis, and the fly orchis have all very curiously-formed flowers, hearing a striking resemblance to the insects from which they take their respective names. The fly orchis is very ahundaut in the chalky districts of south Kent, where it is found with the bee orchis, hut is easily distinguished from all the other kinds of the genus hy the hlue spot in the middle of that part of the lip which forms the back of the fly. All the species which resemble losects flower in May and June, and they are all very difficult to cultivate in gardens.

In this month the great round-leaved sallow is in flower, and is very ornamental. It is one of the few species he-

Her fillets there the Nightsbade weaves, And the Bryonia winds her scollop'd leaves.

In the lone copse, or shadowy dale, Wild cluster'd knots of Harebells blow, And droops the Lily of the Vale, The Periwinkle's leaves below; The Orchis race with varied beauty see, Mock the gay Fly or the exploring Bee.



FLY ORCHIS.

longing to the willow genus that prefer a dry soil, as most of the other kinds will only grow in marshy places, or where their roots can have free access to water. Above two hundred species of willow are known, and they vary in size from a shruh only two or three inchos high, to timber trees fifty or sixty feet high. Some of the smaller kinds are used for hasket-making; and there are little islands in the Thames, called holts, set aside purposely for growing them. All the willows which are used for making haskets are called osiers, and those that have woolly leaves are called sallows, the true willows having long thin leaves. All the trees included in the genus helong to the true willows. In the neighbourhood of London, and in several other parts of Great Britain, the young people gather hranches of the great sallow on Palm Sunday, which they carry in imitation of palm hranches. The flowers of the willow have no petals, but they are ornamental from the rich golden colour of the authers of their stamens. their stamens

In the insect world, the beetles are now particularly abundant. These creatures generally bury themselves in the ground during the winter, but at the first warmth of spring they creep out and seem to enjoy themselves in the heams of the sun. One of the most curious of the beetle tribe is the burying heetle (Necrophirus vespillo), one of the marked peculiarities of which consists in the custom which these beetles have of interring small animals, such as mive and moles for the nurses of denositing.

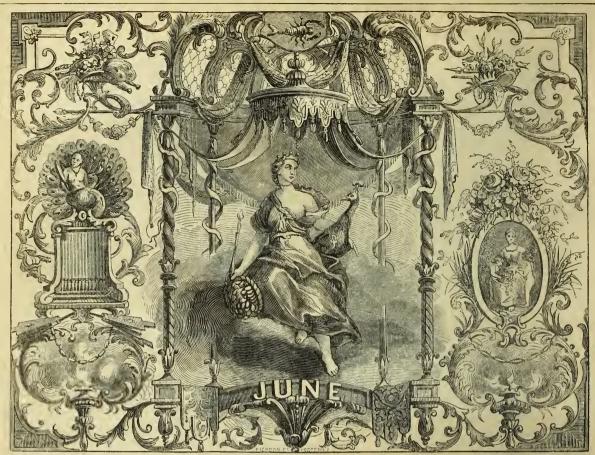
as mice and moles, for the purpose of depositing their eggs in the decaying carcase. At first sight it appears impossible that these beetles, which are only of a moderate size, could possibly contrive to bury creatures so much larger than themselves; but the manner in which it is done is very ingenibut the manner in which it is done is very ingenious. The beetle first walks round the dead hody,
and seems to examine it carefully ou every side.
It then begins gradually to remove the earth from
below the hody, which slowly sinks into the hollow
thus made, the beetle continuing to work helow it
till it has descended to a sufficient depth, after
which the little labourer covers the hody carefully
with the loose soil it has thrown out during the
process of excavation. The sense of smell of these
heetles, like that of many other insects, is extremely delicate, and "no
sooner has any of the smaller quadrupeds perished, than one or more of
these gravediggers will make their appearance, and in a few hours the
corpse will he interred." It may easily he supposed that the remarkable habits
of these beetles were not even gnessed at for some time; and, indeed, they were



corpse will he interred." It may easily he supposed that the remarkable habits of these beetles were not even gnessed at for some time; and, indeed, they were not known till 1752, when they were observed hy M. Gleditsch, and a very interesting account is given of the mode in which he discovered this curious fact by Messrs. Kirty and Spence. M. Gleditsch had "often remarked that dead moles, when laid upon the ground, especially if upon loose earth, were almost sure to disappear in the course of two or three days, often of twelve hours. To ascertain the cause, he placed a mole upon one of the heds of his garden. It had vanished by the third morning; and on digging where it had heen laid, he found it huried to the depth of three inches, and under it four beetles which seemed to have been the agents in this singular inhumation. Not perceiving anything particular in the mole, he buried it again; and on examining it at the end of six days he found it swarming with maggots, apparently the issue of the heetles, which M. Gleditsch now naturally concluded had huried the carcase for the food of their future young. To determine these points more clearly, he put four of of their future young. To determine these points more clearly, he put four of these insects into a glass vossel half filled with earth and properly seenred, and npon the surface of the earth two frogs. In less than twelve hours one of the frogs was interred by two of the beetles: the other two ran ahout the whole day, as if busied in measuring the dimensions of the remaining corpse, which on the third day was also found huried. He then introduced a dead linnet. A pair of the heetles were soon engaged upon the hird. They hegan their operations hy pushing out the earth from under the body, so as to form a cavity for its reception; and it was curious to see the efforts which the heetles made by dragging at the feathers of the hird from below to pull it into its grave. The male having driven the female away, continued to work alone for five hours. He lifted up the hird, changed its place, turned it and arranged it in the grave, and from time to time came out of the hole, mounted upon it and trod it under foot, and retired helow and pulled it down. At length, apparently wearied with this uninterrupted lahour, it came forth and leaned its head upon the earth heside the hird without the smallest motion as if to rest itself, for a full hour, when it again crept under the earth. The next day, in the morning, the hird was an inch and a half under ground, and the trench remained open the whole day, the corpse seeming as if laid out upon a bier, surrounded with a rampart of mould. In the evening it had sunk half an inch lower, and in another day the work was completed and the bird covered. M. Gleditsch continued to add other small dead animals, which were all sooner or later buried; and the result of his experiment was, that in fifty days four heetles had interred in the very small space of earth allotted to them, twelve carcases, viz. four frogs, three small hirds, two fishes, one mole, and two grasshoppers, hesides the entrails of a fish, and two morsels of the lungs of an ox. In another experiment a single heetle buried a mole forty times its own hulk and weight in two days. It is plain that all this lahour is incurred for the sake of placing in security the future young of these industrious insects, along with a necessary provision of food. One mole would have sufficed a long time for the repast of the beetles themselves, and they c as if busied in measuring the dimensions of the remaining corpse, which on the third day was also found huried. He then introduced a dead linnet. A pair of

lieft thus exposed the carease in which their eggs were deposited, both would have heen exposed to the imminent risk of heing destroyed at a mouthful hy the first fox or kite that chanced to espy them."

The caterpillar of the hawthorn butterfly is frequently very destructive at this season, feeding upon the young leaves as soon as the huds unfold, and stripping the trees so completely as to give them the appearance of winter even in early spring. The hawthorn butterfly very much resembles the cahhage butterfly; but the veins are hlack, and the under side of the wings is white, while the veins of the cahhage hutterfly are white, and the under side of the wings is of a pale yellow. The hawthorn hutterfly's eggs are of a pale yellow, and they are laid on leaves without any covering, hut generally in rows close together. The caterpillars, when first hatched, are of a dirty yellow, with a hlack head, and a hlack ring just below it, and a hrownish-red stripe on each side. They are gregarious, and spin a weh on the leaf, under which they live until they have destroyed every portion of the cellular tissue, so that the leaves appear quite stripped off all the trees they have attacked. These caterpillars, however, appear only occasionally, and at intervals of sometimes several years in duration; and as birds are very fond of them, great numbers are devoured. Enough, however, remain to give a most singular appearance to the hawthorn tree which however, remain to give a most singular appearance to the hawthorn trees which they have attacked, for as they devour the whole of the fleshy part of the leaf, leaving what may be called the skeleton, which serves to support the webs they have spun, the whole of the branches appear covered with a transparent drapery of a most singular description.



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THE SUN is situated north of the Equator, and reaches his extreme position in north declination on the 21st. On this day, at 8h. P.M., he passes from the sign Geminite Cancer (the Crah), having been in the former sign 31 days, 8 hours, and 25 minutes. He rises on the 1st at 10\frac{1}{2} N. of N.E. by N.; and on the 21st at 40 N of the same point; and sets on the same days at 10\frac{1}{2} N., and 40 N. of N.W. by N is at the constellation Cancer till the 20th, on which day he passes \$\frac{1}{2}\text{O}\$ Of m. P.M.; and on the 1st at 0h. 2m. A.M.; on the 15th, at 11h beginning of the month, and at the W N.W. on the 29th. He is moving eastward among the stars; and is near the moon on the 1th. His allitude above of the Earth.

The Mars is in the constellation Cancer till the 20th, on which day he passes \$\frac{1}{2}\text{O}\$ Of m. P.M.; near the N.W by N. at the beginning of the month, and at the W N.W. on the 29th. He is moving eastward among the stars; and is near the moon on the 1th. His allitude above the borizon when he souths on the 1st is 570\frac{1}{2}\text{, and on the last day is 520\frac{1}{4}\text{. His}}\$. His moving eastward among the stars; and is near the moon on the 1st is 570\frac{1}{2}\text{, and on the last day is 520\frac{1}{4}\text{. His}}\$.

respectively. On the 1st day he is 30,375,000 miles distant from the Earth.

The Moon enters Aquarius on the 1st; Pisces on the 3rd; in and near Cetus, passing the boundaries of Pisces and Arics, on the 4th, 5th, 6th, and 7th; in Taurus on the 8th and 9th. She is crossing the Milky Way during the evening of the 10th; is in Gemini on the 11th; enters Cancer on the evening of the 12th; Leo on the 14th; Virgo on the 16th; Libra on the 20th; Ophiuchus on the 22th; Agaittarius on the 24th; Capricornus on the 26th; Aquarius on the 28th; and Pisces on the 30th.

She is above the horizon when the Sun is below, during the morning hours, for a few days at the beginning of the month, and for several days towards the end of the month; and during the evening hours, from the 12th to the 26th.

She is on the Equator on the 5th, and going north; reaches her extreme north position on the 11th; then begins to move south; crosses the Equator on the 17th, near midnight; and reaches her extreme south position on the 12th.

She is near Saturn on the 5th; Uranus, on the 6th; Mercury, on the 10th; Venus, on the 12th; Mars, on the 14th; and Jupiter, on the 16th.

on the 10th; Venus, on the 12th; Mars, on the 14th; and Jupiter, on the 16th.

MERCURY is in the constellation Taurus all the month, and situated in the Milky Way.

On the 1st day he sets at 8h. 59m., and on the 7th at 8h. 14m. After this time the planet sets before the Sun sets. On the 15th this planet and the Sun rise together. On the 25th Mercury rises at 3h. 3m., being 43 minutes before the Sun; and which interval increases, till, on the last day the planet's rising precedes the Sun by one hour. On the 25th he rises midway between E.N.E. and N.E. by N. He moves westward among the stars till the 21st, and is stationary on the 22nd, and moves slowly eastward on the 23rd. He is near the Moon on the 10th. For his position in the heavens, see the diagram in next month.

Venus is in the constellation Gemini till the 17th, and in that of Cancer from the 18th.

She is an evening star; and sets on the 1st, at 10h. 3m. P.M.; on the

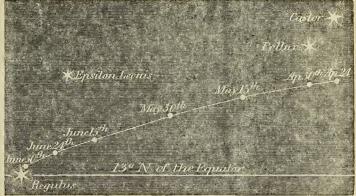
She is an evening star; and sets on the lst, at 10h. 3m. P M.; on the 15th, at 10h. 13m. P.M.; and on the last day at 10h. 5m. P M. Till the 25th she sets between the N.W. by N. and the N.W.; and on the 26th at the N.W. by N.

PATH OF VENUS FROM MAY 1 TO JUNE 20, 1850.



Scale, 24 degrees to one inch.

points of the horizon. She is moving eastward among the stars; is in perihelion on the 2nd, and is near the moon on the 12th. Her path among the stars is shewn in the annexed diagram, which is a continuation of that in March.



Scale, 12 degrees to one inch

path in the heavens is shewn in the annexed diagram, which is continued from that in March.

JUPITER is in the constellation Leo throughout the month.

He sets on the list day at 1h. 10m. A.M., and on the last day at 11h. 19m. P.M., at the W. by N. point of the horizon. His altitude on the last is 46°, and is 44°\frac{1}{2} and is near the Moon on the last day. He moves slowly eastward among the stars, and is near the Moon on the 16th. For his path in the heavens, see the diagram in last he onth. Jupiter's Satellites.—A few eclipses only are visible. The relative position of the Satellite to Jupiter at the instant of the eclipse is shewn in the an-

nexed diagram, as viewed through an inverting telescope.

RELATIVE POSITION OF EACH SATELLITE TO JUPITER AT THE TIME OF IMMERSION OR EMERSION.



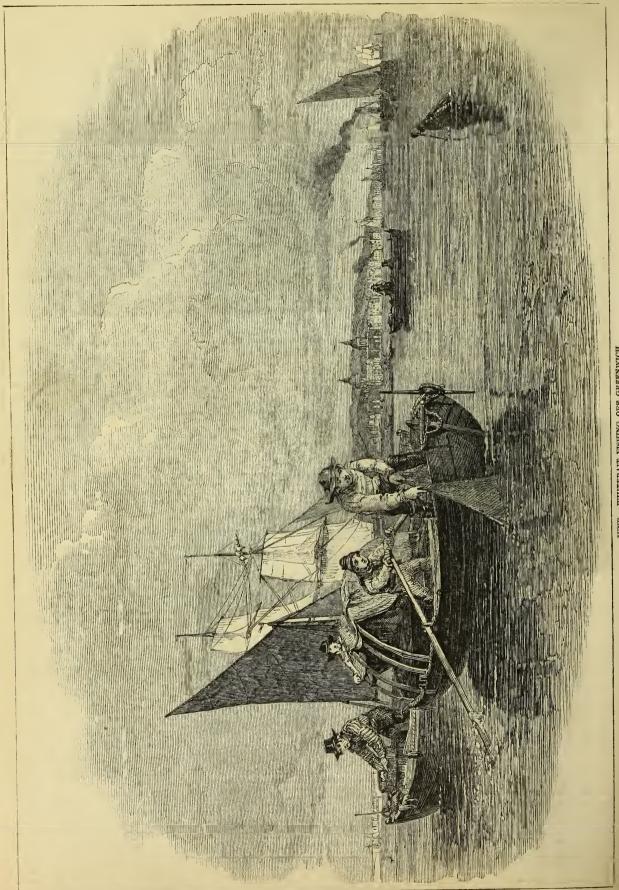
SATURN is in the constellation Pisces throughout the month. He is a morning star; and rises near W. by N. on the 1st, at 2h. 3m. A.M.; on the 15th, at 1h. 10m. A.M.; and on the last day, 13m. after midnight. He souths at an altitude of 44% nearly. He is rear the Moon on the 5th. For his path in the heavens see the diagram in September. URANUS is in the constellation Aries throughout the month. He rises on the 1st at 2h. 12m. A.M., and on the last day at 0h. 20m. A.M. He is near the Moon on the 6th.

is near the Moon on the 6th.

NETTUNE rises on the 1st at 0h. 40m. A.M.; on the 15th, at 11h. 42m. A.M.; and on the last day, at 10h. 51m. A.M., midway between the E. by S. and the E.S.E. points of the horizon.

of nth.	TI	MES OF T		NETS SOU		OR	JUPITER'S S	ATELLITES.	OCCULTAT	TIONS	OF STARS BY T	HE MOON	v
Days he Mo	Mercury.	Venus.	Mars.	Jupiter.		Nepture.	let Set.	3rd Sat. Im. I. Emer. E.	Names of the Stars.	Magni- tude.	Times of disappear- auce & re-appear- ance of the Star.	At which limb of the Moon	between what Latitudes visible.
1 6 11	H. M 0 51 0 23 Morning	H. M. 1 38 1 45 1 52	н. м. 4 11 4 3 3 55	п. м 6 23 6 5 5 47	н. м 8 32 8 14 7 56	11. M. 5 59 5 39 5 19	9 10 6 P.M.	D. H. M. 17 9 36 P.M. E. 24 10 32 P.M. I.	42 Aquarii	6	D. H. M. { 2 1 22 A.M. { 2 2 35 A.M. (15 11 57 P.M.	Bright Dark	24° N. & 76° N.
16 21 26	11 23 10 59 10 42	1 58 2 4 2 10	3 47 3 39 3 31	5 29 5 11 4 54	7 37 7 19 7 1	5 0 4 40 4 20	2nd Sat.		Chi Leonis	4	At the time of Emersion the Moon will he helow the horizon	Dark	25° N & 90° N.
30	10 35	2 14	3 24	4 40	6 46	4 1		4th Sat.	29 Ophiuchi 70 Aquarii	6	\$\begin{cases} 23 & 1 & 56 & A.M. \\ 23 & 2 & 32 & A.M. \\ 30 & 0 & 37 & A.M. \end{cases}\$	Dark Bright Bright	4° N. & 70° N. 14° N &
							11		11.	0 - 1	(30 1 47 A.M.	Dark	79° N.

	- 1							UE				30 1 41	A.M.	Dalk	13 14.
TIMES OF CHANGES OF THE MOON, And when she is at her greatest distance	of the nth.	MERC	URY.	VEN		ASCENSI		ND DEC		IONS OF		PLANETS		NEPTU	JNE
(Apogee), or at her least distance (Perigee), from the Earth in each Lunation.	Days	Right Ascension	Decli- nation North.	Right Ascension	Decli- nation North.	Right Ascension	Decli nation North	Right Ascension	Decli- nation North.	Right Ascension	Decli nation North.		Decli- pation North.	Right Ascension	Decli- nation South.
LAST QUARTER 3D. 3H. 47M. A.M. NEW MOON . 10 7 20 A.M. FIRST QUARTER 16 10 23 P.M. FULL MOON . 24 2 10 P.M. PERIOEE . 11 7 P.M. APOGEE . 27 4 A.M.	1 6 11 16 21 26	5h. 29m 5 22 5 10 5 0 4 56 4 59	22° 29′ 20 57 19 29 18 28 18 8 18 31	6h.16m 6 43 7 9 7 36 8 1 8 27	24° 40′ 24° 30 24° 2 23° 17 22° 16 20° 59	8h. 50m 9 2 9 13 9 25 9 36 9 48	19° 15′ 18 24 17 31 16 35 15 36 14 35	11 4 11 5 11 7	7° 34' 7° 25 7° 14 7° 2 7° 49 6° 34	1h. 10m 1 11 1 13 1 14 1 16 1 17	4° 53′ 5 2 5 11 5 19 5 26 5 32	1 48 1 49 1 50 1 51	10 36 10 41 10 45 10 49	22 36	9° 38′ 9 38 9 38 9 39 9 40 9 41



NOTES ON NATURAL HISTORY.—JUNE.

THE month of June is one of the most cheerful in the year, for in it all nature seems in full enjoyment of the delights of summer before the oppressive beat of seems in thit enjoyment or the dengins of summer benefit the oppressive being July and August is self. In every direction crowds of young birds are trying their wings in short flights, chirping and twittering to each other, as though they were talking of the wonderful feat they were accomplishing, in venturing for the first time to fly alone. The blackeap hatches its young about this period, and it



BLACKCAP WARBLER.

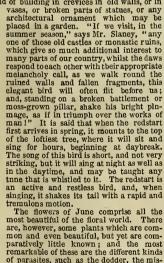
BLACKCAP WARBLER.

BLACKCAP WARBLER.

BLACKCAP WARBLER.

BLACKCAP WARBLER.

BERCH STATES AND STATES



of parasites, such as the dodder, the mis-tletoe, the bird's-nest, and several others. Of these parasites, the mistletoe is, perhaps, the most common. It grows on various the most common. It grows on various kinds of trees, particularly on the hawthorn and the apple; and, though but very rarely, on the oak. It is said that when the Druids consecrated a grove of oaktrees, they always planted an apple orchard near it, in order that there might be a chance of the mistletoe spreading from the apple-trees to the oaks. When the Druids found the mistletoe growing on the oak, they went in solemn procession to cut it, which was always done with a golden knife, and the mistletoe was received in a plece and the misitetoe was received in a piece of white linen, that had never been used for any other purpose. The Saxons, also, revered the misitetoe; and the following curious legend is related in the "Edda" respecting it. Balder (the Saxon Apollo)

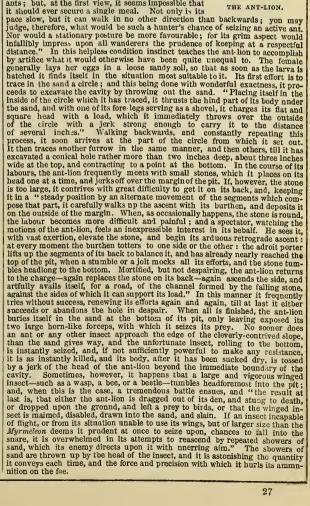
wishing to visit earth, Friga, his mother (tho Saxon Venus), was so afrald that some accident would happen to him, that sho made everything that belonged to the earth, the air, or the water take an oath not to injure him. Unfortunately, however, she forgot the mistletoe, which belongs neither to the earth, nor the air, nor the water; and the evil spirit Loke, who wished to destroy Balder, killed him with a large branch of mistletoe. All nature was instantly overwhelmed witb grief for the loss of the god of the sun; but at the end of three months, Thor (who was the Jupiter of the Saxous) restored Balder to life and placed the mistletoe under the sole control of Friga, that it might never injure her again. It was probably from the mistletoe being dedicated to the Saxon goddess of love, that it is hung np at Christmas, in country places, for people to kiss under. It was formerly supposed that the mistletoe could not be sown, but it is now found that a berry may be inserted in a crack in the bark of a tree, and then, if a piece of olded paper be tied loosely over it, to preserve it from the birds, it will germinate.

Occasionally fields of clover are covered all over with a cnrious twining plant, which binds the stems together, and withers the leaves. The plant itselfis pretty, from its pink stems, which twine together like a number of threads, and its elegant little flowers, which are also pinkish; but it is a most destructive weed, and destroys everything it takes hold of. It grows at first from the ground, but as soon as it has twisted itself round any unfortunate plant, it detaches its root from the earth, and draws all its nourishment from the plant it has taken hold of, and which it soon destroys. The yellow bird's-nest (Mondaropa Hoppithys) only vegetates on the roots of beech and fir-trees, and seems very seldom to perfect its seeds, which may account for the comparative scarcity of the plant. It has no leaves, but their place is supplied by brownish scales. The flowers are of a dingy yellow, at first all d wishing to visit earth, Friga, his mother (the Saxon Venus), was so afrald

just bursting into the perfect state, while others are caterpillars or pupæ. is, indeed, almost impossible to enumerate them.

Though numberless these insect tribes of air,
Though numberless each tribe and species fair,
All have their organs, arts, and arms, and tools,
And functions exercised by various rules.
Their peaceful hours the loom and distaff know;
But war, the force and fury of the foe.
The spear, the falchion, and the martial mall,
And artful stratagem, where strength may fail,—HENRY BROOKE.

Of all the stratagems employed by insects, perhaps the most curious are those of the ant-lion (Myrmkleon). This insect in the larva state bears considerable resemblance to the wood-louse; and, as Messrs. Kirby and Spence observe, "if we looked only at its external conformation and habits, we should be apt to conclude it one of the most helpless animals in the creation. Its sole food is the julces of other insects, particularly ants; but, at the first view, it seems impossible that it should ever secure a single meal. Not only is its pace slow, but it can walk in no other direction than backwards; yon may judge, therefore, what would be such a hunter's chance of seizing an active ant. Nor would a stationary posture be more favourable; for its grim aspect would





YELLOW BIRD'S-NEST.



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31		Day dec. 1h. 12m.	4 24	1 -		56 ³	7 47	11 2	5	84	133	11 4	49			2			6 15	6 40	0 212
131	- ''	Day ucc. 111. 12111.				4,					-4		- 1								

JULY.

THE SUN is situated N. of the Equator, and is moving south. On the 23d day, at 6h. 53m. A.M., he passes from the sign Cancer to Leo (the Lion), having heen in the former sign 31 days, 10 hours, and 53 minutes. He rises on the 19th at N.E. hy N., and sets at N.W. by N. On the 3rd day, his distance from the earth is 96,592,000 miles, heing the greatest in the year.

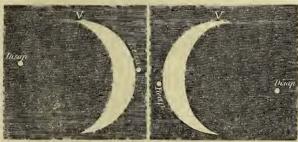
The Moon passes into Cetus near midnight on the 1st, and moves near the boundaries of this constellation, and those of Pisces and Aries, till the 5th. After noon on this day she enters Taurus, crosses the Milky Way on the 8th, and enters Gemini; she passes into Cancer on the 10th, Leo on the 11th, Virgo on the 13th, Libra on the 17th, Ophiuchus on the 19th, Sagittarius on the 21st, Capricornus on the 24th, Aquarius on the 26th, Pisces on the 27th, and Cetus on the 29th. on the 29th.

She is above the horizon when the Sun is below, during the morning hours for a few days at the beginning, and for several days at the end of the month, and during the evening hours from the 11th to the 25th.

She is on the Equator on the 2nd, at her extreme north position on the 9th, on the Equator on the 15th, at her extreme south position on the 2nd, and a third time on the Equator on the 30th.

She is near Saturs on the 3rd; Uranus, on the 4th; Mercnry, on the 8th; Venns, on the 11th; Mars, on the 12th; Jnpiter, on the 13th; Saturn, on the 30th; and Uranus, on the 31st.

OCCULTATION OF MARS BY THE MOON, JULY 12, 1850, AS SEEN THROUGH A TELESCOPE WHICH



Does not invert.

LAST QUARTER 2D. 5H. 58M. P.M. NEW MOON.. 9 2 27 P.M.

10

FIBST QUARTER 16 FULL MOON 24

PERIGEE

APOGEE

27 41

6

P.M.

A.M.

А.М.

199 28

8h.51m

16

39

9 9 10

10 25 47 10008

5h.10m

30 57 33

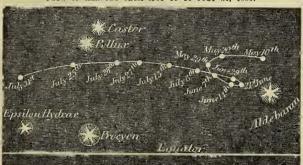
6 11 16

The disappearance will take place at the unillumined limb of the Moon, and the reappearance at the illumined limb, the former at 5h. 28m. P.M., and the latter at 6h. 33m. P.M.: at these times the Sun is above the horizon, and, there-

re, these phenomena cannot be seen without the assistance of a telescope.

Mercury is in the constellation Taurus till the 9th, in Gemini from the 10th to the 24th, and in Cancer after the 25th.

PATH OF MERCURY FROM MAY 10 TO JULY 31, 1850.



Scale, 24 degrees to one inch.

He is a morning star, and rises on the 1stat 2h. 45m.; on the 10th, at 2h. 35m; on the 20th, at 3h. 2m.; and on the last day, at 4h. 14m. His times of rising precede those of sunrise by 1h. 4m. on the 1st; by 1h. 22m. on the 10th, 11th, and 12th; by 1h. 21m. on the 13th; by 1h. 5m. on the 20th; and by 10m. on the last day. He rises thronghout the month a little north of the N.E. by N. point of the horizon. He moves eastward among the stars during the month, is at his greatest west elongation on the 4th, is near the Moon on the 8th, and is in superior conjunction with the Snn on the last day. His motion among the stars is shown in the preceding diagram, and his telescopic appearance this month is shown in December.

VENUS is in the constellation Cancer till the 4th, and in that of Leo from the 5th.

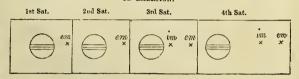
She is an evening star; and sets on the 1st, at 10h. 4m. P.M.; on the 15th, at 9h. 43m. P.M.; and on the last day, at 9h. 12m. P.M.; on the 16th at the W. N.W., and on the 31st at the W. hy N. points of the horizon. She is moving eastward among the stars; is near the Moon on the 11th, Regulus on the 16th, and Mars on the 31st. For her path among the stars see the diagram in next month.

Mars is in the constellation Lee throughout the month.

He is an evening star; and sets on the 1st at 10h. 37m. P.M.; on the 15th, at 9h. 56m. P.M.; and on the last day at 9h. 9m. P.M. He is moving eastward among the stars; is near Regulus on the 1st, the Moon on the 12th, and Venus on the last day. His albitude above the horizon, when he souths on the 1st, is 52°, and on the last day is 45°. For his path among the stars see the diagram in next month. next month.

Depth month. Jupiter is in the constellation Leo till the 29th, on which day he passes into Virgo. He sets on the 1st, at 11h. 15m. P.M.; and on the last day, at 9h. 26m. P.M., at the W. by N. point of the horizon. His altitude at the time of southing on the 1st is $44^{\circ}3$; and on the last day is $42^{\circ}3$. He moves slowly eastward among the stars, and is near the Moon on the 13th. For his path among the stars during this month see the diagram in May.

RELATIVE POSITION OF EACH SATELLITE TO JUPITER AT THE TIME OF IMMERSION OR EMERSION.



SATURN is in the constellation Pisces throughout the month. He rises E. by SATURN is in the constellation Pisces throughout the month. He rises E. by N. on the 1st, at 9 minutes after midnight; on the 15th, at 11h. 11m. P.M.; and on the 1st day at 10h. 10m. P.M. After these times he is visible throughout the night. He sonths at an altitude of 44% nearly. He is stationary among the stars from the middle of the month, and is near the Moon on the 3rd, and again on the 30th. (See the diagram in September).

URANUS is in the constellation Aries throughout the month. He rises on the 1st, at 0h. 15m. A.M.; and on the last day, at 10h. 15m. P.M. He is near the Moon on the 4th, and again on the 31st.

NETURE rises on the 1st, at 10h. 47m. P.M.; on the 15th, at 9h. 54m. P.M.; and on the last day, at 8h. 48m. P.M.

ON THE APPARENT MOTIONS OF THE SUN, MOON, AND PLANETS. (Continued from page 17.)

to fall daily behind the stars. If we observe the altitude of a group of stars above the eastern horizon at sunset, we shall find, on examining the position of the same stars a few days afterwards, that its elevation is increased, and that it has approached towards the meridian. After an interval of three months, the same group of stars would be on the meridian at the time of sunset; and, after this time, it will continue to advance nearer to the Sun, till it is lost in his splendour. After being invisible for some time, it will become visible in the morning, and situated westward of the Sun; and day by day this distance will increase; till, at the end of the year from the time of the first observation, their relative positions will be the same as on the first examination.

The path of the Sun will be seen, by referring to our monthly account, to be continuous in one direction, and oblique among the stars. About the 21st of March, the Sun is situated on the Equator; and, after this time, his north declination and his altitude above the horizon when southing, increase day by day (see the Calendar pages), till about June 22, when he reaches his greatest north to fall daily hehind the stars. If we observe the altitude of a group of stars above

(Continued on name 33.)

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ays of Month.	TI		THE PLAN			or		JUPIT	ER'S SA	TELLITE	s.		OCCULTA	TION	S OF STARS	BY THE	MOON	٧.
Day the M	Mercury.	Venus.	Mars.	Jupiter.	Saturn. Morning.	Neptune Morning.	11	1st Sat. mersion	Eclipse	2nd Emers			anf the	Magni. tude.	limes of disappance & re-appance of the	pear- pear- limb Star. M	of the	Between what Latitudes visible.
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TIM	S or CH	ANGES o	тнв МО	ON, H			RIG	HT AS	CENSIO	NS AND	DECLIN	ATION	S OF TH	E PL	ANETS.			
And	when she i	s at her gr	eatest dista	ince	MER	CURY_	VENU	Js.	M A	RS.	JUPI	TER.	SATU	RN.	URANU	s	NEPT	TUNE.
	ogee), or at , from the I			05 05	Right Ascension	Decli- nation North.	Right Ascension	Decli- nation North.	Right Ascensio	Decli- nation North.	Right Ascension	Decli- nation North.	Right Ascension	Decli- nation North	1 Assertion 1	Decli- nation North.	Right scension	Decli- nation South,

9h.59m

10

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9042

22h.36m

35 35 9

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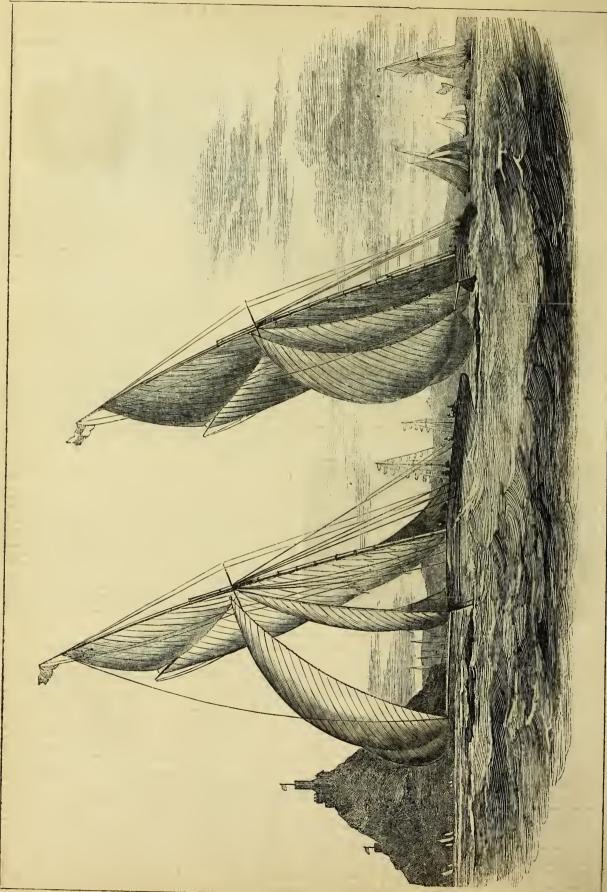
1h. 52m 10° 55

10 58

11

52 53 53

53 54



NOTES ON NATURAL HISTORY.—JULY.

Now comes July, and with his fervid noon Unsinews labour. The tired mower sleeps; The weary maid rakes feebly; the warm swain Pitches his load reluctant; the faint steer, Lashing his sides, draws sulkily along The slow encumber'd wain in midday heat.

Lashing his sides, draws sulkily along. The slow encumber'd wain in midday heat.

In July the heat of the weather has generally hecome so oppressive that all nature appears languid; the very birds are nearly all silent, and only the robin and the wren, with some very few exceptions, continue to sing at all after the first formight in July. The hirds that are heard at this season generally, indeed, sound strange and unnatural. The chiff-chaff, which at other times only repeats the shrill and monotonous two notes which have gained it its name, was heard by Mr. Jenyns, in July, to utter a singular kind of whistle, which it repeated several times in succession. Nearly all the young birds are hatched at this season; but Mr. Jenyns informs us he has found the nest of the tree-pipit (or, more probably, the meadow-pipit) on the grass as late as the middle of July. The tree pipit, or titark, is a kind of lark, the male bird of which has a very agreeable song; though, as Mr. Yarrell observes, "it is perhaps more attractive from the manner in which it is given than the quality of the song itself. He generally sings while perched on the top of a bush, or one of the upper hranches of an elm tree standing in a hedge-row, from which, if watched for a short time, he will he seen to ascend on quivering wing about as high again as the tree, then, stretching out his wings and expanding his tail, he descends slowly by a half-circle, singing the whole time, to the same branch from which he started, or to the top of the nearest other tree; and so constant is this habit with him, that, if the observer does not approach too near so as to alarm him, the hird may be seen to perform this same evolution twenty times in half an hour." The titlarks walk on the ground, like the wagtails and the larks. The meadow-pipit is smaller than the other species; and, instead of singing on a tree, it places itself on a little hillock or a large stone, and moves its tail up and down like a wagtail. This hird always builds in the grass, and lays a little

July is the month for gathering the leaves of the woad (Isàtis tinctòria).

July is the month for gathering the leaves of the wood (Isate tinctoria). It is cultivated, as its leaves are applied in dyeing thread, in some parts of England; but that which is used for dyeing cloth is hrought principally from the Canary Islands and Spidy. It was formerly grown and Sicily. It was formerly grown in creat the state of the control o from the Canary Islands and Spain and Siely. It was formerly grown in great abundance in the south of Somersetshire; and it is said that the name of Glastonbury is derived from the Celtic word glas, blue. The ancient Britons are reported to have painted their hodies with the blue obtained from this plant and home. obtained from this plant, and hence they received their name, as Britho is the Celtic word for to paint. The plant is a biennial, and the seeds that are sown in the July of one year produce leaves in the July of the following year in a fit state for nsing. When the leaves are gathered, they are steeped in water till all the fleshy matter is separated from the fibrous part; the pulp is then snifered to part; the pulp is then snifered to terment, and the water being partly strained and partly evaporated from it, the substance, when dry, is cut into pieces about an inch square, and packed in casks or sacks for sale. It is principally nsed for dyeing woollen substances not only blue, but hlack; at all the black cloth that is made is dyed blue before it is dyed black, to prevent it from training beaus. to prevent it from turning brown. The woad, though used in dyeing The woad, though used in dyeing hue, has yellow flowers, which are rather ornamental. It is now comparatively very little cultivated, as it requires a very rich soil to bring the leaves to perfection; and, unless they are fleshy and succulent, they produce very little colorning matter. On this account its cultivation is so averaging that indicate which it is an account the training which it is an account the cultivation is so On this account its cultivation is so expensive, that indigo, which is produced from the leaves of the *Indigifera* (a leguminous plant growing in the East Indies), can be obtained more cheaply, and it is, therefore, generally preferred.

Cruciferous plants, such as the wild explant the wild use the wild the wild explant the wild explant the wild use the wild will be a such as the willist will be a such as the will be a such as the will be a such as

Cruciferous plants, such as the wild cabbage, the wild turnip, and the wild mustard, are generally in flower in this month; and, as their flowers are nsually yellow, they give a peculiarly gay and cheerful appearance to the taste, and are generally considered very wholesome. They are all known by their flowers consisting of four petals, disposed in the form of a Greek cross. The umbelliferons plants, on the other hand, which are known by their flowers consisting of four petals, disposed in the form of a Greek cross. The umbelliferons plants, on the other hand, which are known by their flowers forming large heads, like the parsley and the meadow-sweet, are nearly always poisonous when in a wild state; though they are rendered edible, and even wholesome, by cultivation. The celery and the carrot are striking examples of this. The celery is poisonous in a wild state; and its stalks are tough and leathery. The wild carrot has a root so slender that it was at first thought the was carcely possible to be the same plant as that cultivated in gardens. M. Vilmorin, however, of Paris, contrived, by cultivating the wild plant and raising several generations from its seeds, to obtain carrots fit for the table. In this way, no doubt, many of our popular vegetables have been introduced, of which the origin now is totally unknown. As a proof of the wonders which may he effected by cultivation, it may be mentioned that all the kinds of cabbage, greens, broccoli, and cauliflower

have been raised from the same stock, and that they are only sub-varieties of the

At this season of the year, rose-trees have very often curious excrescences on the branches, which look like a tnfted lichen, and to which the old naturalists gave the name of bedeguar. These excrescences con-



sist of numerous reddish, moss-like fibres, quite dissimilar from the leaves of the plant, and each excrescence is sometimes the size of a hen's egg. the When cut open, it will be found



it will be found that the centre of this hairy mass consists of from ten to a dozen ten to a dozen ten to a dozen ten to a formal time of all.

LARVA AND PERFECT IN-cells all growing interest together, each together, each containing the containing the containing the bark of the rose-tree with its ovipositor, and lay sits eggs just within the bark, or rather, in the soft parts of the plaut; and theso having their juices interrupted, bulge out into a kind of tumour; while the bark, separating into its woody fibres, forms a kind of fringe, which covers the tumonr. The perfect insect is a most fearful-looking gnat. Gnats are at this season very abundant. The month of July is generally remarkably moist, and as it is also warm, it is very favourable to the increase of these creatures, who have been always observed to bite most in the warm moist weather. bite most in the warm moist weather.

favourable to the increase of these creatures, who have been always observed to bite most in the warm moist weather.

There is a species of gnat common in Hungary (Similia columbaczénsis), which, though so minute as to be scarcely perceptible without a powerful nicroscope, is yet so extremely destructive that it will kill a large horse or cow in a few hours. In some years these gnats fill the atmosphere so completely, that, as Kollar tells us, 'it is impossible to breathe without swallowing a great number of them. Not unfrequently they appear in so dense a multitude as to be taken at a distance for a clond, and in this form they are most to be feared. On the appearance of these clouds the herds instinctively leave their pastures, and fly to the villages to take refuge in their stables from these bloodthirsty insects. Horses, oxen, and swine generally suffer the most from them. When these flies attack any of the above-named animals, they select the tender soft parts, free from hair. Hence, they attach themselves mostly to the corners of the eyes, the mouth, the nostrils, and even creep into the ears and the inner nostrils, the throat and windplpe, &c., where they are sometimes found in animals killed by them. in thick layers. Men are no less exposed to the attacks of these scourges than domestic animals; but they can more readily drive them off, and by covering the face secure themselves from the most dangerous consequences. Solitary examples also are not wanting where little children have been killed by them, when the mother, to pursue her work, has left her babe lying in the grass, or suspended in its swing to the hranch of a tree, and staid away too long. Every bite given by this insect to men or cattle causes a burning itching, and a very painful, hard, rapid swelling, which scarcely goes off in eight or ten days. Many of them, particularly when they are near together, cause a violent inflammatory fever, and in sensitive hodies cramps and couvulsions. For a long time the appearance of this destructive gnat w been seen to issue from the mouths of these caves in the form of a thick smoke. This opinion is universal in the Bannat, and is particularly maintained by the Wallachians, who add that the dragou killed by St. George is huried in one of these caves, and that these hurtful insects, as well as many other polsonous animals, are hatched in its jaws." Some of these gnats were hrought to England in the summer of 1847, and exhibited at a meeting of the Entomological Society. One of the nost destructive insects at this season of the year is the raspberry beetle (Derméstes, or Bytiurus, tomentosus). "Many of the raspberries," says Mr. Westwood, "may now be perceived more or less shrivelled, with the seed-vessels dried up. If one of these be opened, the central core of the fruit will be found more or less burrowed, as well as the fruit itself, the seeds of which are left bare and dry, especially at the ton, the remainder not being full-sized, and generally

dried up. If one of these be opened, the central core of the fruit will be found more or less burrowed, as well as the fruit itself, the seeds of which are left bare and dry, especially at the top, the remainder not being full-sized, and generally prematurely ripe and discoloured. This is done hy a whitish grap, of about a quarter of an inch long, and rather cylindric in figure; with the under side of the body and sides, and articulations of the segments, dirty white; the head and a dorsal plate on each ring brownish buff, with the sides and a central longitudinal line on each plate brown, thus giving the appearance of three dorsal lines of brown. The head is horny, and furnished with horny jaws and short feelers, as well as with the various membranors parts usually present, composing the under portions of the mouth of the larvæ of *Coleoptera*. The gruh is also furnished with six short, scaly, articulated feet. It has also two short scaly horns on the upper side of the extremity of the body, the under side being furnished with a fleshy retractile tubercle, which the insect uses as a seventh foot. When full grown it descends to the earth, where it huries itself to a considerable depth, forming for itself a small oval eccoun of earth, with the inner surface quite smooth. Here it assumes the ordinary pupa state, to which all coleopterous insects are subject." The perfect insect is a small, buff, or slaty-brown, oval beetle, about one-sixth of an inch long, with knobbed antennæ, which is to be seen flying about the raspberry plants in summer, and which is sometimes also found on the hawthorn and the blackherry.

The hloody-nose beetle (*Chrysomella tenebricosa*) is so named from its having

The hloody nose beetle (Chrysomèla tenebricòsa) is so named from its having always, when alarmed, a clear drop or two of red fluid hanging from its mouth. always, when alarmed, a clear drop or two of red fluid hanging from its mouth. This fluid it ejects, when taken, upon the hands of its capturers; and as, from the sharp pain it occasions, it frequently makes the holder start, the insect falls to the ground, and, of course, loses no time in making its escape. Other species of the same genus eject a white fluid, which is somewhat glutinous, and which enables them to adhere, when necessary, to the branches or leaves of trees. These beetles, indeed, and the ground beetles, to which they are very nearly allied, are remarkably expert climhers, and they will not only run up trees and along the branches of trailing plants, but they will occasionally walk with their backs downwards, adhering so firmly that it requires a tolerably strong pull to disengage them. Sometimes, the effect of a warm sunny day in February is astonishing upon the beetles which are hybernated, and they come out of their holes in such numbers, as to make one wonder where they can possibly have been hidden.



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19	M	Gamma Aquilæ souths 9b		2 3	27	$51\frac{1}{4}$	7 13	5	32	95	1 19	1	20	\Box			2		11 55	No Tide.	231
20	Tu	Alpha Aquilæ souths 9h 47m	4 5	3 3	13	51	7 11	6	12	10 3	9 20	$\frac{1}{2}$	12				13		0 25	0 50	232
21	W	Black-cock sh. b.	4 5	5 2	59	503	7 9	6	45	11 2	5 22	$\frac{3}{2}$ 3	11		- 100		4		1 15	1 35	233
22	TH	Beta Aquilæ souths 9h 44m	4 5	7 2	44	501	7 7	7	12	Mornin		4	12			2002	- 6		1 55	2 10	234
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AUGUST.

AUGUST.

The Sun is situated north of the Equator, and is moving sonth. On the 23rd day, at 1h. 22m. r.m., he passes from the sign Leo to Virgo (the Virgin), having been in the former sign 31 days, 6 hours, and 49 minutes. He rises and sets on the 15th, at the E.N.E and W.M.W. points of the horizon respectively. On the 1st day his distance from the Earth is 96,392,000 miles.

On Augnst 7th there will be an eclipse of the Sun, but which will be invisible in Europe. It will be visible for the most part at places situated between 20° south latitude, and 40° north latitude, and between 130° and 300° east longitude. These portions of the Earth are principally occupied by the North Pacific Ocean, and the eclipse will be total at some parts of the ocean. It begins on the 7th at 7h. r.m. nearly, Greenwich time, at a place whose latitude is 11½° N., and whose longitude is 164° E.; and the eclipse ends on August 7th near midnight, Greenwich time, in latitude 10° S., and longitude 300° E.

The Moon, on the 1st, near midnight, enters Taurus. She crosses the Milky Way on the 4th; enters Gemini on the 5th; Cancer on the 6th; Leo on the 8th; Virgo on the 10th; Libra on the 13th; Ophinchus on the 15th; Sagittarius on the 17th; Capricornus on the 20th; Aquarius on the 22nd; Pisces on the 24th; Cetus on the 25th; and, till the 29th, she is alternately in Pisces, Cetus, and Aries; and enters Taurus on the 29th, she is alternately in Pisces, Cetus, and Aries; and enters Taurus on the 29th, she is alternately in Pisces, Cetus, and Aries; and enters Taurus on the 29th, she is alternately in Pisces, Cetus, and Aries; and enters Taurus on the 29th, she is alternately in Pisces, Cetus, and are such beginning of the month, and from the 14th to the 31st; and the constellation on the 29th, and uring the morning hours, for a few days at the beginning of the month, and from the 14th to the 31st; and Uranus on the 27th.

Meacury is in the constellation Cancer till Angnst 3rd; in that of Leo from the 4th to the 23rd; and in Virgo from the 24t

VENUS is in the constellation Leo till the 3rd, and in that of Virgo from

She is an evening star; and sets on the 1st, at 9h. 10m. p.m.; on the 15tb, at 8h. 36m. p.m.; and on the last day, at 7h. 57m. p.m.; on the 13th at the W., and on the 27th at the W. by S. point of the horizon. She is moving eastward among the stars. She is near Jupiter on the 6th; Beta Virginis on the 8th; and Spica Virginis on the 3lst. Her path in the heavens is shewn in the annexed diagram, and her telescopic appearance is shewn in December.

PATH OF VENUS FROM JUNE 21 TO AUGUST 20 1850



Scale, 24 degrees to one inch

Maas is in the constellation Leo till the 9th, on which day he passes into

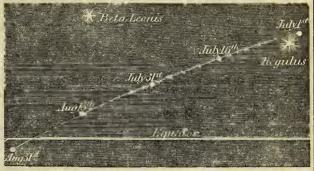
26 11 39

20

2 7 12 56

He is an evening star; and sets, on the 1st., at 9h. 6m. P.M.; on the 15th, at 8h. 26m. P.M.; and, on the last day, at 7b. 37m. P.M. He is moving eastward among the stars; is near the Moon on the 10th, Jupiter on the 14th, and Beta Virginis on the 15th. His altitude above the horizon when he souths on the 1st is 44°_{3} , decreasing to 37° on the last day.

PATH OF MARS FROM JULY 1 TO AUGUST 31, 1850.



Scale, 12 degrees to one inch.

JUPITER is in the constellation Virgo throughout the month.

He sets, on the 1st, at 9h. 22m. P.M.; and, on the last day, at 7h. 35m. P.M.; near the W. by N. point of the horizon at the beginning of the month, and W. at the end. His altitude in southing is $42^{\circ 2}_{3}$ on the 1st, and is $40^{\circ 2}_{4}$ on the last day. He moves slowly eastward among the stars; is near Venus on the 6th, the Moon on the 10th, Mars on the 14th, and Beta Virginis on the 17th. His path in the heavens is shewn in the diagram in May.

RELATIVE POSITION OF EACH SATELLITE TO JUPITER AT THE TIME OF IMMERSION OR EMERSION.



SATURN is in the constellation Pisces throughout the month.

SATURN is in the constellation Pisces throughout the month. He is visible during the greater part of the night; and rises near the E. by N.; on the 1st, at 10h. 6m. P.M.; on the 15th, at 9h. 10m. P.M.; and, on the last day, at 8h. 8m. P.M. He souths at an altitude of 44° nearly; is almost stationary among the stars throughout the month; and is near the Moon on the 26th. See the diagram in next month shewing his motion in the heavens.

URANUS is in the constellation Aries throughout the month.

He rises, on the 1st, at 10h. 11m. P.M.; and on the 31st at 8h. 13m. P.M., midway between the E. by N. and E.N.E. points of the horizon. He souths, on the 15th, at 4h. 2m. A.M., at an altitude of 49°½. He is almost stationary among the stars, and is near the Moon on the 27th.

Sonth. 11 50 2 18 1 20 5 32 1 53

the stars, and is near the Moon on the 27th.

Nerrunerises, on the 1st, at 8h. 44m. P.M.; on the 15th, at 7h. 48m. P.M.; and, on the 31st, at 6h. 45m. P.M., midway between the E. by S. and the E.S.E. points of the horizon.

ON THE APPARENT MOTIONS OF THE SUN, MOON, AND PLANETS.

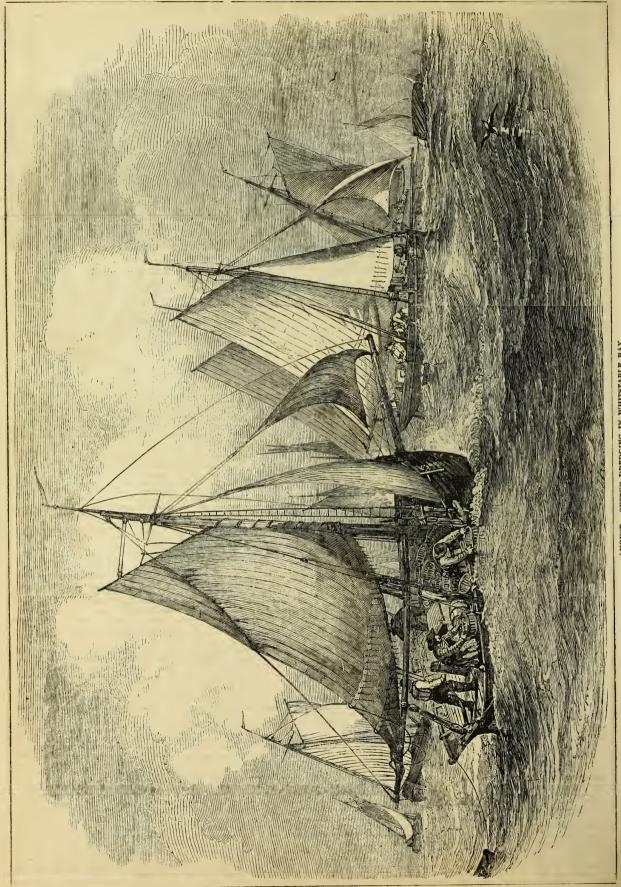
(Continued from page 229.)

declination and his greatest meridian altitude. From this time, the north declination gradually decreases till about the 24th of September, when he is again on the Equator: he continues to move in the same direction till about the 22nd of December, when his greatest south declination is attained; after which his south declination gradually decreases till about the 21st of March. At the times of the vernal equinox on the 21st of March, and the autumnal equinox about the 24th of

(Continued on page 37.)

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onth.	T		THE PLAN			OR		JUPITI	ER'S SATI	ELLITE	s.		OCCULTA	TIO	NS OF ST	ARS BY	THE MOO	N.
Days of the Month.	Mercury.	Venus.	Mars.	Jupiter.		Neptune. Morning.							es of the	Magni.	ance &	disappear re-appear the Star.	At which limb of the Moon.	Between what Latitudes visible,
1 6 11 16 21 26 31	и м 0 12 0 33 0 50 1 4 1 14 1 22 1 27	H. M. 2 34 2 35 2 36 2 37 2 38 2 39 2 40	H. M. 2 31 2 23 2 15 2 7 1 59 1 51 1 43	н. м. 2 53 2 36 2 20 2 4 1 48 1 32 1 16	и м. 4 44 4 24 4 4 3 44 3 24 3 4 2 43	H. M. 1 57 1 37 1 17 0 57 0 37 0 17 Aftern.	Are		ole, Jupit r to the S		g too	Aldet Gamu	ıa Libræ agittarii	3 1 4 6 6	3 1 3 8 3 9 14 8 14 9 18 6 18 8 22 8	M. 39 A M. 25 A.M. 34 A.M. 44 A.M. 30 P.M. 41 P.M. 44 P.M. 4 P.M. 56 P.M. 19 P.M.	Dark Bright Dark Dark Bright	16° N. & 90° N. & 8° N. & 81° N. & 18° N. & 76° N. & 69° N. & 6° N. & 72° N.
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			distance (F		Right Ascense	Decli- nation A North.	Right Ascension	Decli- nation North.	Right Ascension	Decli- nation North.	Right Ascension	Decli- nation North.	Right Ascension	Dec nati Nor	on Ascen	ht sion North	on Right	Decli- nation South
NE Fia Fu	BT QUART W MOON . RST QUAR LL MOON ST QUAR	7 9 T. 14 5 22 9	46 F	M. 1 c.m. 6 c.m. 11 c.m. 16 c.m. 21	8h.51 9 32 10 9 10 42 11 12	13 4 1	1 34 1 55 2 15	3 42 1 9 South.	11h. 10m 11 22 11 33 11 45 11 57	4 58 3 41 2 23	11h. 32m 11 35 11 39 11 41 11 46	4° 17′ 3 54 3 31 3 7 2 43	1h. 21m 1 21 1 21 1 21 1 21 1 20	5° 5 5 5	45 1 5 42 1 5	4 11 4 11	5 22 34 5 22 33 4 22 33	9° 55 9 57 9 59 10 3

6 31 12 8



NOTES ON NATURAL HISTORY.—AUGUST.

In August very few birds are heard to sing. Even the robin and the wren are generally quiet from the middle of July till the middle of August, though the robin generally hegins again to sing towards the end of the latter month. the robin generally begins again to sing towards the end of the latter month. Occasionally a number of young birds, such as linnets, greenfinches, buntings, and other small birds, are seen flying together in large flocks like a swarm of hees, and seeming as though they were driven off by the old birds, though they are much too numerous to be the inhabitants of one nest; and when they fly, it is in a determined manner, "wending their way steadily in a direct line, as if under the influence of some common impulse." These flittings, also, do not appear to have anything to do with ordinary migrations, as they occur in species which do not migrate; and, in fact, it does not appear that there is any reason for their removal, unless it be that those particular kinds of birds have become, after the hatching of the young ones, too numerous for their original neighbourhood, from a deficiency of food, or some other cause; and hence they are driven forth to seek a new settlement. hence they are driven forth to seek a new settlement.

Mr. Knapp says he has observed "a flock of finches and yellow-hammers bask-

Mr. Knapp says he has observed "a flock of finches and yellow-hammers basking in a hedge, and a hawk, after due consideration, apparently single out an individual. Upon its moving for its prey, some wary hird has given the alarm, and most of the little troop scuttle immediately into the hedge; hut the hawk holds on its course, and darts npon a selected object. If baffied, it seldom succeeds npon another; and, so fixed are its eyes upon this one individual, that, as if nnohservant of its own danger, it snatches up its morsel at our very sides A pigeon on the roof of a dove-cot seems selected from its fellows—the hawk rarely snatching at more than one terror-sticken hird. The larger species of hawks appear to employ no powers excepting those of wing, hut pursue and capture by celerity and strength."

It has often been observed that we are surrounded by wonders which we do not notice, hecause they are of daily occurrence, but which excite the greatest surprise

It has often been observed that we are surrounded by wonders which we do not notice, because they are of daily occurrence, but which excite the greatest surprise when they are pointed out to us. The truth of this observation is forcibly exemplified as regards fish. We see them every day exposed for sale on stalls, and we eat them frequently at our tables, without once considering by what a curious and delicate organisation these creatures are enabled to see and hreathe in an element that carries death to us and to quadrupeds. The sight of fishes appears to be remarkably strong, as it is hy sight chiefly that they discover their prey. Hence, a fish is easily deceived by an artificial fly, or the imitation of a frog or other small aquatic or amphibious animal; which, if it were guided by the smell, or any other sense than the sight, could not happen. The mode in which fishes hreathe is, however, the most curious. They have no lungs; hut, instead of them, they have gills, carefully covered with a lid and a flap, hoth of which the fish can open or keep closed at pleasure. The gills are composed of arches, hordered by a kind of fringe, which, when examined through a microscope, appears covered with a velve-like membrane, "over which myriads"

FLOWERING FERN.

like memhrane, "over which myriads of wonderfully minute blood-vessels are spread, like a delicate net work. There are commonly four of these fringedarches: they are moveable, and allow the currents of water, driven down by the action of the mouth, to flow freely through them, so as to lave every fibril." It is absolutely necessary that this should he the case, since the gills lose their power of acting as soon as they become dry; and hence a fish cannot live long after it is taken out of the water. As there is danger, however, of the food taken hy the fish being carried through the gills by the stream of water constantly flowing through them, the minor curve of the arch formed by the gills is stndded with spines, which prevent anything but air or water passing through them.

In the vegetable world, some plants In the vegetable world, some plants are in flower at this season that are not met with at any other, and one of the most curions of these is the flowering fern (osminda regulis), a plant, the very name of which seems contradiction, as it is well known that ferns have no flowers, in the usual acceptation of the word, and that they hear their seeds on the hack of their leaves. The flowering fern resembles the other plauts he-longing to the family in not having any proper flowers, but it has its seed-vessels on only some of its fronds, or, rather, on what should have been some of its fronds; as the seed-vcssels grow clustered

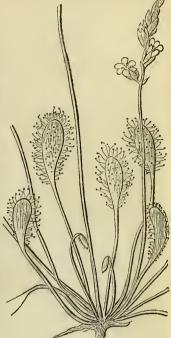
FLOWERING FERN. have been some of its fronds; as the seed-vessels grow clustered together, without any of the cellular tissue belonging to the leaves being produced. Thus, the seed-vessels of the flowering fern, instead of heing found, as in other ferns, on the hack of the leaves, look as though the leaves had withered away from them. In the early part of the summer, these seed-vessels heing of a pale green, are scarcely perceptible; hut ahout autumn they take a rich brown colour and hecome very ornamental. These ferns are tolerably ahundant, particularly in the north of England and in Scotland, where, in marshy places, they grow to a considerable size, sometimes having heen known to he upwards of eleven feet high. The botanic name of the plant is said to allude to some Saxon King named Osnund, who adopted the flowering fern has sare way as the broom, the common heath, and many other allude to some Saxon King named Osmund, who adopted the flowering fern as his badge, in the same way as the hroom, the common heath, and many other British plants, have been adopted as banners by several Highland clans. The nnderground or root-like stem of this plant is tonic, and is used in rustic medicine. The moon-wort, or grape fern (Botrýchium Lunària), is very nearly allied to the Osmunda, as it produces naked seed-vessels; thut it is much less ornamental. It takes its name of moon-wort from its leafiets being somewhat crescent-shaped. The adder's tongue (Ophioglóssum) is another fern which does not produce its seed-vessels on the back of the leaves, but in a close clustered spike, hearing considerable resemblance to a tongue. The

adder's tongue is found in moist meadows and pastures in situations.

The sundew, or red rot, is the name of a singular genus of per ennial British plants, which ar found on heaths and commons where the soil is hoggy. The leaves, which all spring from the roots, are covered with glandular hairs, from the extremities of which exudes a transparent hut glutinous liquid, resembling drops of dew. The flowers are nearly white, and rather pretty. There are three species: the commonest kind has round leaves, but the long-leaved species (Drosera longifòlia) is the most ornamental.

Ants and small flies are sometimes found adhering to the leaves, or entangled in the hairs, which, it is said, fold over them, and preventthe possibility of their esc. ventthe possibility of their escape; but it appears more probable that the insects are held fast by the glutinous liquid exuded from the hairs. "All the species of *Drósera* are acrid, and their juice is employed to destroy warts and corns." They are said to occasion the retire the probable of the property of the pro the rot in sheep, but that probably arises from the unwholesome nature of the boggy land on which the plants grow.

The ants generally seen are little hlack creatures with long legs, large heads, and very slender hodies. But these are only the hodies. But these are only the working part of the community;



working part of the community; and many people are probably not aware that, in the month of August, and sometimes later, "the hahitations of the various species of ants may be seen to swarm with winged insects, which are the males and females, preparing to quit for ever the scene of their nativity and education. Every thing is in motion; and the silver wings, contrasted with the jet bodies which compose the animated mass, add a degree of splendonr to the interesting scene.

The hustle increases, till at length the males rise, as it were hy a general impulse, into the air, and the females and falls with a slow movement to the height of about ten feet, the males flying obliquely, with a rapid zigzag motion, and the females, though they follow the general movement of the column, appearing suspended in the air, like balloons, seemingly with no individual motion, and having their heads turned towards the wind." Sometimes the swarms of a whole district," continue Messrs. Kirhy and Spence, "unite their infinite myriads and rising the properties of the column appearing their heads turned towards the wind." Sometimes the swarms of a whole district," continue Messrs. Kirhy and Spence, "unite their infinite myriads and rising the properties of the column appearing the properties of the column, appearing their heads turned towards the wind." Sometimes the swarms of a whole district, "continue Messrs. Kirhy and Spence, "unite their infinite myriads and rising the properties of the column appearing the properties of the column



seemingly with no individual motion, and having their heads turned towards the wind." Sometimes the swarms of a whole district," continue Messrs. Kirhy and Spence, "unite their infinite myriads, and, rising with incredible velocity, in distinct columns, they soar ahove the clouds. Each column looks like a kind of slender net-work, and has a tremulons undulating motion, which has been observed to be produced by the regular alternate rising and falling just alluded to. The noise emitted hy myriads and myriads of these creatures does not exceed the hum of a single wasp. The slightest zephyr disperses them; and if, in their progress, they chance to be over your head, if you walk slowly ou, they will accompany you, and regulate their motions by yours." All the male, and a great number of the female, ants become the prey of birds or fish, or are destroyed in various ways; hut a few females remain, some of which hecome the founders of new colonies, while others return to their original nest, when it is said that they are seized forcibly by some of the working ants, who tear off their wings, and keep them prisoners till they are ready to lay their eggs. During the time that the female ants arc in this state of durance, the working ants, though hanging pertiuaclously to each leg, to prevent their going out, at the same time attend upon them with the greatest care, feeding them regularly, and conducting them where the temperature is suitable for them, but uever quitting them for a single moment. As soon as the female hegins to lay her eggs, the working ants which are in attendance on her carry them off, and deposit them in proper places tor them to he hatched. Each female lays four or five thomsand eggs in the course of a year, so that when a single female founds a colony, she is very soon enabled to people it. When a female has founded a colony, she is very soon enabled to people it. When a female has founded a colony, she is very soon enabled to homage to her very similar to that which bees render to their queen; and, a hutterfly, she is packed so close as to incommode the carrier but little. When he sets her down, others surround and caress her, one after another tapping her on the head with their antenna." "In whatever apartment," says Gculd, "a queen condescends to he present, she commands ohedience and respect. An uniqueen condescends to he present, she commands obedience and respect. An universal gladness spreads itself through the whole cell, which is expressed by particular acts of joy and exultation. They have a particular way of skipping, leaping, and standing upon their hind legs, and prancing with the others." The ants appear to make use of these frolics to show their joy at the presence of their queen. It is said, that when a queen begins to form a colony, the first thing she does is to strip herself of her wings; so that when the female ants helonging to a colony already formed are stripped of their wings by the workers, it is not an act of cruelty on their part, but rather a delicate attention, as they spare the queen the trouble of taking off her wings herself.



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21	s	St. Matthew	5	45	6	7.00	$39\frac{1}{4}$		õ	- 1	Mor	ning.	-4	5	16			300	1			2	5	2		264
22	S	17TH S.aft. TRIN.	5	46	7		4	5 5	- 11	6 48	0	-	$36\frac{1}{4}$	6	24		_	-	16			2	35	2	- 0	265
23	M	Autumn begins	5	48	7		- 4	5 5	-04	7 11	i	4	41		31		-	_	17			3	5	3	-	266
24	Τυ	Aipha Pegasi souths 10h 43m	5	49	7	57	- 4	5 5	- 11	7 36	ī	-1	45분	8	42		-		18			3	40	3		267
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26	TH	St. Cyprian	5	53	8	38	4	5 5	- 11	8 37	3		$53\frac{1}{4}$	11	4	_			20			4	45	5	-011	269
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SEPTEMBER.

THE SUN is situated north of the Equator till the 22nd, and he crosses the Equator, going south, on the 23rd. He crosses from the sign Virgo to Libra on the 23rd day, at 10h. A.M., having been in the former sign 30 days, 20 hours, and 38 minutes. He rises and sets on the 5th at the E. by N. and W. by N., and on the 23rd at the E. and W. points of the horizon respectively. On the 1st day his distance from the Earth is 95,816,000 miles.

The Moox is in Gemini on the 1st; and enters Cancer on the 3rd; Leo ou the 4th; Virgo on the 6th; Libra on the 10th; Ophiuchus on the 12th; Sagittarius on the 14th; Capricornus on the 16th; Aquarius on the 18th; Pisces on the 20th; Cetus on the 21st; near Pisces and Cetus ou the 24th; near Aries and Cetus on the 25th. She is crossing the Milky Way on the 28th. She enters Gemini on the 28th, and Cancer on the 30th.

She is above the horizon when the Sun is below, during the morning hours of the first three days and last eleven days, and during the evening hours, from the 9th to the 24th.

She is at her extreme north position on the 1st; is on the Equator THE SUN is situated north of the Equator till the 22nd, and he crosses the Equa-

She is at her extreme north position on the lst; is on the Equator on the 8th; and her extreme south position on the 15th: she then begins to move northward; is on the Equator on the 22nd; and reaches her extreme north position a second time on the 29th. She is near Mercury, Mars, and Jupiter on the 7th; Venus on the 9th; Saturn and Uranus on the 23rd.

9th; Saturn and Uranus on the 23rd.

MERCURY is in the constellation Virgo throughout the month.

He is an evening star; and sets on the 1st at 7h, 21m.; on the 15th, at 6h, 41m.; and on the last day, at 5h, 44m. The Sun sets on these days 35 minutes, 27 minutes, and 3 minutes before the planet. On the 9th he sets at the W. by S.; and towards the end of the month, near W.S.W. He moves eastward among the stars till the 24th; is stationary among them on the 25th; and moves westward from the 26th. He is near the Moon on the 7th; Mars on the 8th, and again on the 26th; is near Spica Virginis on the 20th; and is at his greatest eastern elongation on the 12th. His path is and is at his greatest eastern elongation on the 12th. His path in the heavens is shewn in the diagram below.

Venus is in the constellation Virgo till the 11th; and in that of

Libra from the 12th.

She is an evening star; she sets, on the 1st, at 7h. 55m. p.m.; on the 15th, at 7h. 22m. p.m.; and on the last day, at 6h. 50m. p.m.; on the 15th at the W.S.W., and on the 28th at the S.W. by W. points of the horizon. She is moving eastward among the stars, and is near the Moon on the 9th. For her path in the heavens see the diagram in November; and for her telescopic appearance see the engraving in December.

Mars is in the constellation Virgo throughout the month. He is an early evening star, and sets, on the 1st, at 7h, 34m. P.M.; on the 15th, at

PATH OF MERCURY FROM AUGUST 1 TO OCTOBER 31, 1850.



Scale, 24 degrees to one inch.

6h. 54m. P.M.; and on the last day, at 6h. 12m. P.M.; near the W. at the beginning of the month, and at the W. by S. point of the horizon on the 21st; he is

moving eastward among the stars; he is near the Moon and Mercury on the 7th,

moving eastward among the stars; he is near the Moon and Mercury on the 7th, and again near Mercury on the 26th. His altitude above the horizon when he souths on the 1st is 36\frac{2}{9}, decreasing to 29\text{o} nearly on the last day. For his path in the heavens during this month, see the diagram in November.

JUPITER is in the constellation Virgo throughout the month.

He sets, on the 1st, at 7h. 32m. P.M.; and on the last day, at 5h. 45m. P.M.; near the W. point of the horizon. His altitude at the time of southing on the 1st is 40\frac{2}{3}\tag{2}; and on the last day, is 37\frac{2}{3}\tag{4}. His motion is slowly eastward among the stars; and he is near the Moon on the 7th. For his path in the heavens see the diagram in May.

SATURN is in the constellation Pisces throughout the month.

He is visible throughout the night; and rises on every day near the E. by N.

PATH OF SATURN DURING THE YEAR 1850.



Scale, 6 degrees to one inch.

point of the horizon, at 8h. 4m. P.M., on the 1st; at 7h. 8m. P.M., on the 15th; and at 6h. 7m. P.M., on the 30th. He souths at an altitude of 43°3 nearly. He moves slowly westward among the stars, and is near the Moon on the 23°d. His path among the stars throughout the year is shown in the above diagram. URANUS is in the constellation Aries throughout the month. He rise, on the 1st, at 8h. 9m. P.M.; and on the 31st, at 6h. 13m. P.M. He souths on the 15th, at 2h. 15m. A.M., at an altitude of 49°3 nearly. He moves westward among the stars, and is near the Moon on the 23°d.

NEPTUNE rises, on the 1st, at 6h. 41m. P.M.; on the 15th, at 5h. 45m. P.M.; and on the last day, at 4h. 46m. P.M.

ON THE APPARENT MOTIONS OF THE SUN, MOON, AND PLANETS. (Continued from page 33.)

September, the lengths of both days and nights are equal all over the

The circle which the sun describes is called the Ecliptic—so named from the circumstance of the Moon, at the time of her eclipse, occupying that part of the heavens which is passed over by the Sun; in fact, as was frequently stated last year, no eclipse of either the Sun or Moon can take place unless the

stated last year, no eclipse of either the Sun or Moon can take place unless the Sun, the Moon, and the Earth are in, or nearly in, the same straight line. The Ecliptic is, and has been from time immemorial, divided into twelve equal parts, called Signs—each of which, therefore, contains one-twelfth part of the whole circle, or thirty degrees. The names and symbols of these signs are inserted on page 3. The space extending eight degrees on either side of the Ecliptic is called the Zodiac; and within this space the greater part of the eclestial phenomena connected with the planetary system takes place.

The motion of the Sun in his orbit is not uniform. This is evident from the fact of his remaining several days longer in the northern than in the southers signs. On page 3 will be seen the length of the seasons, from which it appears that at present Spring is shorter than Sunmer, and the Autumn longer than Winter; and that the interval of time between the vernal and autumnal (Continued on page 41.)

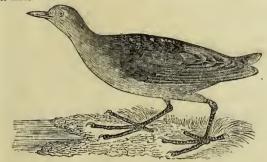
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Days of the Month.	TII		HE PLAN			OR	10	PITER'	S SATELI	LITES.		C	CCULTAT	rions	OF STARS	BY TI	HE MOO!	٧.
the I	Mercury.		Mars.	Jupiter.		Neptune.		E	clipses of			Names Sta	of the	P a	imes of disa nce & re-a nce of the S	ppear- 1		Between what I ati udes visible.
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Tl	MES of (CHANGES	OF THE N	100N,			RI	GHT A	SCENSIC	NS A	ND DECL	INATI	ONS OF	THE I	LANETS.			
A	nd when sl	he is at her	greatest di	stance 3	E MI	RCURY.	VEN	US.	MAB	s	JUPIT	rer.	SATU	RN.	URAN	US.	NEP	TUNE.
	(Apogee), or at her least distance (Perigee), from the Earth in each Lunation.						Right Ascension	Decli- nation South.	Right Ascension	Decli- nation South.	Right Ascension	Decli- nation North.	Right Ascension	Decli- nation North	Accordion	Decli- nation North.	Right Ascensio	Decli- nation South.
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NOTES ON NATURAL HISTORY.—SEPTEMBER.

NOTES ON NATURAL HISTORY.—SEPTEMBER.

September is the favorrite month of sportsmen; and in the first week or two, in addition to the ordinary number of partridges, many corn-crakes are killed, as they are generally very abundant in the fields, particularly where seed clover has been sown with barley. Corn-crakes, Mr. Yarrell observes, are excellent game for young sportsmen, as they fly very slowly with their legs hanging down, and seldom go farther than to the nearest hedge; while they are so highly prized as food, that it was formerly said two landrails are a present for a Queen. The corn-crake or landrail will put on the appearance of death when exposed to danger from which it cannot escape; and Mr. Jesse relates the following incident in proof of this assertion:—"A gentlemau had a corn-crake brought to him by his dog, to all appearance quite dead. As it lay on the ground, he turned it over with his foot, and felt convinced that it was dead. Standing by, however, in silence, he suddenly saw it open an eye. He then took it up; it head fell; its legs hung loose, and it appeared again quite dead. He then put it in his pocket, and before long he felt it all alive, and struggling to escape. He then took it ut; it was as lifeless as before. Having laid it again upon the ground, and retired to some distance, the bird in about five minutes warily raised its bead, looked round, and decamped at full speed." There are two other kinds of corn-crake besides the common species: the one is called the spotted corn-crake, and is very prettily marked with white spots on the wings; and the other, which is called the little crake, is of an olive-brown colour, and much smaller than the other kinds. other kinds.



LITTLE CRAKE.

There are but few plants in flower at this season; and though the woods are "ay, from the antiminal tints taken by the leaves of some of the trees, many leaves have fallen, and the mornings and evenings have become cold and damp. Among the few flowers left may be seen the colchicum, which resembles the crocus in its form, but which is of a much paler lilac, and which has long, slender, crocus in its form, but which is of a mucb paler lilac, and which has long, slender, succulent, white stems, without any appearance of leaves (which, indeed, do not show themselves above ground till the following spring, when they appear, together with their fertilised seed-vessels—which, by a wise provision of nature, have remained buried in the earth during the winter). This plant is employed by medical men, and has an extraordinary effect in lulling the pain of gout and rheumatism; but it is a very daugerous medicine, and an over-dose has frequently proved fatal.



In moist, warm places, a curious plant is found in flower at this season, called the Common Navel-wort (Cotylèdon Umbilicus). It generally grows on walls or cottage roofs, or moist rocks; and its principal ornament consists in its singularly-

shaped leaves, which are drawn down in the centre, so as to form a kind of cup, or wine-glass, the stalk of which is formed by the foot-stalk which proceeds from the centre of the nuder side of the leaf. The whole plant is very succulent, including the flowers, which are greenish in the common kind. In the Greater Navel-wort, on the contrary, the flowers are the most ornamental part, as they are of a bright yellow, and they form a large erect spike; while the leaves are not remarkable for their beauty. In some parts of the country this plant is called Penny-wort, from the shape of the leaves, which are sometimes round and flat, like a penny. In September flies begin to be very troublesome; and, though they do not sing like gnats or mosquitos, they are, perabaps, still more disagreeable from the incessant buzzing they keep up around us, and the irritation they occasion by settling on the hands and face. The immense numbers of these troublesome insects surpass all belief, and it is said that in some places they bave been known to be fifty to the square inch. "It is a remarkable, though as yet unexplained fact," ob-erves Mr. Spence, in the sixth edition of the Introduction to Entomology, "that if ruls of thread or string, with meshes a full inch square, be stretched over the open windows of a room in summer or autumn, when flies are the greatest nuisance, not a single one will venture to enter from without; so that by this simple rian a bouse may be kept free from these pests, while the adjoining ones, which have not bad nets applied to their windows, will swarm with them. In order, however, that the protection should be efficient, it is necessary that the rooms to which it is applied should have the light enter by one side only; for, in those which have a thorough light, the flies pass through the meshes without scruple." "It is a singular fact," Mr. Spence observes, in another place, "that Herodotus, above two thousand years ago, stated that the Egyptian fisherments of the fact above related as to flies being ex insects in the larva and periect states were found to leave any visible track behind them when they crawled over glass; and, by the aid of powerful magnifying-glasses, it was found that traces were left of an exceedingly minute quantity of glutinous matter, which appeared to have been emitted by the feet of these creatures; and subsequent experiments proved that the hair-like appendages which form the brushes of spiders and flies are all tubular. It has often been observed that flies that have been half drowned, if taken out of the milk or water than the beautiful to the state of the second of the into which they have fallen, take a great deal of time in cleaning their feet before they can walk; and this, no doubt, is to clear out the brushes of their feet, and to bring them into a proper state for emitting the glutinous fluid.

The drone-fly (Eristalis tenax) bears so much resemblance to a bee that it is difficult at first sight to distinguish it from one; but



much resemblance to a bee that it is difficult at first sight to distinguish it from one; but on examining it carefully, it will be found that it has only two wings, whereas all kinds of bees have four. "The eggs of this fly," a writer in the Gardeners' Chronicle tells us, "are dropped in stagnant water while the female is on the wing." The larvæ are of a most extraordinary shape, being thick at one end, and baving a long tail like the stalk of a plant at the other. "The underside exhibits an infinity of vessels, with a large mass or two nuder the thorax, like a bundle of salmon-col-ured eggs. This insect bas also numerous feet, surrounded by little hooks, distinctly projecting from the body, which assist it in walking. When the larva is full-fed, it crawls out of the water, and secretes itself amongst stones, in pallings, or crevices of woodwork, &c.: baving fixed itself, it gradually contracts as the skin dries and hardens, until it assumes an oval sbape; it is then of a dirty ochreous brown colour, the anterior extremity is a little depressed, having two horns above, covered with glands on the upper surface for breathing, and beneath them are two similar, but very minute, horns; on the uuderside are seven pairs of spots formed of black borny points, and a slight indentation shows the position of the mouth; the tail, although useless in this stage, does not fall off." About the first week in September, "by dilating itself, the depressed portion of the puppa, to which the four horns are attached, is forced off, and the fly comes forth of a pale colour, with its wings shrivelled;" but, in a short time, the wings increase to their proper size, and the atnosphere hardens and colours the skin.

The ground beetles are occasionally covered with very small parasitical insects, which appear to annoy them exceedingly, as they run about shaking themselves as though they were using every possible effort to get rid of their tormentors; and on one occasion a ground bectle was observed to run through the loose particles of



	1	1	ī-			SUN		110,11111	-		MO				D	URAT	ION (OF M	OONLIGHT	TI	GH V	TATER	ا الله ا	ı
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23	The	Twilight ends 6h 42m	6	38	10	33	2/4	4 50			1 23	1 - 4	10					19	- ·	3	45	4 5		ı
24		Day breaks 4h 47m	6	40	15	40	204	4 47			2 10	2	10	5						4	20	4 40	298	ı
25	F	St. Crispin	6	42	15	47	$26\frac{1}{2}$	4 45	8		3 1	1574	11	13	-	_ _	-	20		5	20	5 20	299	ı
26	S	Alpha Pegasi touths 8h 37m	6	44	15	54	26	4 43	9			59	After	noon		- -		21			45	·	300	ı
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29	Τυ	[Jude]	6	50	16	9	25	4 37	Mornin	ıg.	7	$1 54\frac{1}{4}$	2	32				24		7	50	$\frac{8}{2}$	000	1
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31	TH	Twilight ends 6h 26m	6	53	16	15	24 i	4 34	1 5	$53^{ }$	8 48	3 45 3	3	28	11/1/4.	_		26	Minute Minute	110	50	11 20	304	Ł

OCTOBER.

The Sun is situated south of the Equator, and is moving south. On the 23rd day, at 6h. 13m. p.m., he passes from the sign Lihra to Scorpio (the Scorpion), having been in the former sign 30 days 8 hours and 13 minutes. He rises and sets on the 11th, at the E. by S. and W. by S.; and on the 30th, at the E.S.E. and W.S.W. points of the horizon respectively. On the 1st day he is 95,039,000 miles from the Earth.

miles from the Earth.

The Moon enters Leo on the 1st; Virgo on the 4th; Libra on the 7th; Ophiuchus on the 9th; Sagittarins on the 11th; Capricornus on the 13th; Aquarius on the 16th; Pisces on the 17th; Cetus on the 19th: she is near Pisces and Cetus on the 21st; and Arles and Cetus on the 22nd; she enters Tanrus on the 22nd, and passes the Milky Way on the 25th: she enters Gemini on the 26th; Cancer on the 27th; Leo on the 28th; and Virgo on the 31st.

She is above the horizon when the Sun is below, during the morning hours from the 18th to the end of the month, and during the evening hours from the 8th to the 25th.

She is north of the Equator till the 5th, on which day she crosses the Equator going southward, and reaches her extreme south position on the 12th: she then

She is north of the Equator fill the 5th, on which day she crosses the Equator going southward, and reaches her extreme south position on the 12th: she then begins to move northward; is on the Equator on the 19th, and on the 26th reaches an extreme north position.

She is near Mercury and Jupiter on the 5th; Mars on the 6th; Venus on the 9th; Saturu on the 20th; and Uranus on the 20th.

Mercury is in the constellation Virgo throughout the month.

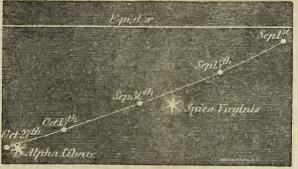
He is a morning star after the 8th, till which day the Sun rises before him; on the '5th he rises at 5th 12m., belong 1h. 3m. before the Sun; on the 24th he rises at 4h. 51m., being 1h. 50m. hefore the Sun; on the 24th he rises at 4h. 51m., being 1h. 50m. hefore the Sun; and on the last day, at 5h. 15m., the Sun rising 1h. 49m. afterwards. He is favourably situated from the 15th for observation before sunrise. On the 15th he rises midway between the E. and E. by S. points of the horizon; and near the end of the month the point of his rising is E. by S. nearly. He moves westward among the stars till the 15th; is stationary among them on the 16th; and moves eastward from the 17th, as is shewn in the diagram exhibiting his path in September.

VENUS is in the constellation Libra till the 3rd, and in that of Scorpio from the 4th to the 26th; and on the last day, at 6h. 3m. p.m.; at the S.W. by W. at the beginning, and at the S.W. at the end of the month. She moves slowly eastward among the stars; is at her greatest elongation on the 6th; is near the Moon on the 9th, and Antares on the 14th. For her path among the stars, see the diagram in November; and for her telescopic appearance, see the engraving in December. She is now hecoming brilliant.

Mans is in the constellation Virgo till the 14th, and then enters Libra.

He is an early evening star; and sets, on the 1st, at 6h. 9m. p.m.; near W. by S. at the

PATH OF MARS FROM SEPTEMBER 1 TO OCTOBER 27, 1850.



Scale, 12 degrees to one inch.

heginning, and the W.S.W. points of the horizon on the 18th. He is moving eastward among the stars, and is near the Moon on the 6th. His altitude above the horizon when he souths, at the heginning of the month, is 28°_4 ; and is 21°_4

26 12 57

P.M.

APOGEE

at the end of the month. His path among the stars is shewn in the preceding diagram.

JUPITER is in the constellation Virgo throughout the month.

JOPTER is in the constellation virgo throughout the month. He sets, at the beginning of the month, the same time as the Sun sets; and after that time, he sets before the Sun. He rises, on the 1st, at 5h. 39m. A.M.; and on the last, at 4h. 18m. A.M., at the east point of the horizon. His altitude on southing, on the 1st, is $37^{o}_{3}^{o}$; and on the 1st at day, is $35^{o}_{2}^{o}$. His motion is slowly eastward among the stars; and he is near the Moon on the 5th. His path among the stars is shewn in the diagram in May.

RELATIVE POSITION OF EACH SATELLITE TO JUPITER AT THE TIME OF IMMERSION OR EMERSION.



SATURN is in the constellation Pisces throughout the month.

SATURN is in the constellation Pisces throughout the month.

He is visible throughout the night; and rises midway between the E. and E. by N. points of the horizon, on the lest day, at 6h. 3m. p.m.; on the 15th, at 5b. 6m. p.m.; and on the last day, at 4h. 0h. p.m. He souths at an altitude of 422 nearly. He moves slowly westward among the stars; and is near the Moon on the 20th. See the diagram of last month.

URANUS is in the constellation Aries throughout the month.

He rises, on the 1st, at 6h. 9m. p.m.; and on the 31st, at 4h. 9m. p.m. He souths, ou the 15th, at 15 minutes after midnight, at an altitude of 49°. He moves slowly westward among the stars; and is near the Moon on the 20th.

NEFTONE rises before the Snn sets; and sets, on the 1st, at 3h. 6m. A.M.; and on the last day. at 1h. 0m. A.M.

on the last day, at 1h. 0m. A.M.

ON THE APPARENT MOTIONS OF THE SUN, MOON, AND PLANETS. (Continued from page 37.)

equinoxes, viz. 186 days, 10 hours, and 57 minutes, is 7 days, 15 hours, and 58 minutes longer than the interval between the antumnal and vernal exquinoxes. The Sun moves with the greatest velocity when at a point situated near the winter solstice; his daily notion at this time is about 1 degree, 1 minute, and 10 seconds. He moves with the least velocity when at a point mear the summer solstice, when his daily motion is about 57 minutes and 11 seconds. It is constantly varying between these points. The average of all his daily motions is 59 minutes and 11 seconds nearly, which is his rate of motion about the heginning of April and October.

October.

The point of the solar orbit which is at the greatest distance from the earth is called the apogee (away from the Earth); and the apparent diameter of the Sun at this time, as viewed from the Earth, is ahout 31 minutes and 31 seconds, which is its least value. The point of the solar orbit which is occupied by the Sun when he is nearest the Earth is called perigee (near the earth); and at this time his apparent diameter is about 32 minutes and 36 seconds, which is its greatest value. The average of all his apparent diameters, or that diameter of the Sun when he is at his average distance, is about 32 minutes and 3 seconds.

The Sun when viewed by the naked eye appears to be uniformly luminous, but when examined by means of the telescope there frequently appear some spots of an irregular and ill-defined form upon his surface. These spots for some time past have been very frequent. Sometimes they are of an immense size, and visible without the aid of a telescope. These spots first appear at the eastern edge of the Sun, and disappear at his western edge; and at times the same spots, after the lapse of nearly a fortnight, re-appear at the eastern edge of the Sun. The interval of time between the same spots occupying the same relative position. The interval of time between the same spots occupying the same relative position is about 27 days and 8 hours.

is about 27 days and 8 hours.

The motion of the Moon among the stars is very rapid. She passes over a space equal to her diameter in about one hour; and in the course of a few hours the apparent distances between her and adjacent stars are very different. Her apparent motion, like that of the Suu, is always from west to east.

The various illustrations in this Almanack, exhibiting the apparent paths of the planets, include that of Mercury from January 1 to the middle of December; that of Venus from March 1 to the end of the year; that of Mars from January 1 to October 27; and those of Jupiter and Saturn for the whole year.

From these diagrams it will be remarked, that the apparent motions of the

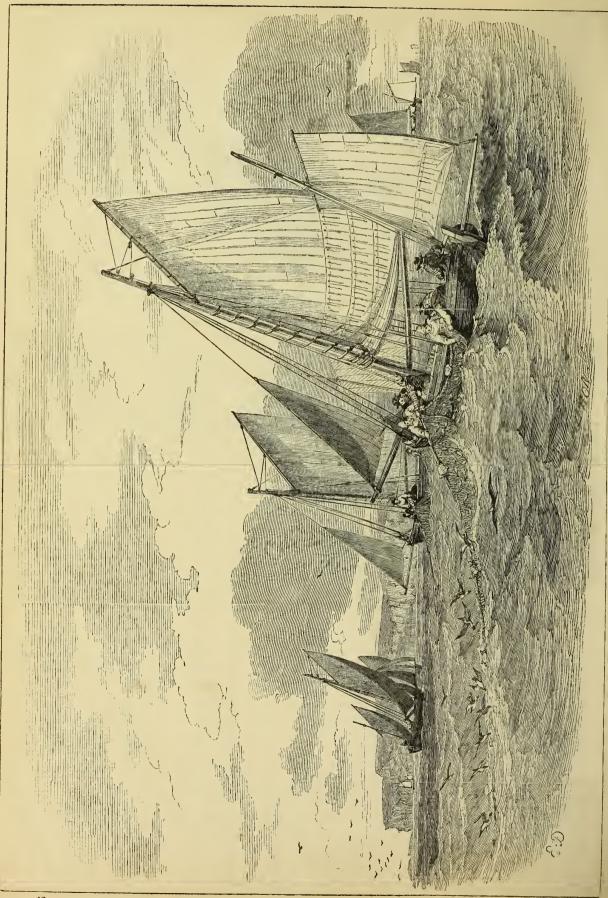
(Continued on page 45.)

2 51

Days of he Month.	TII		HE PLAN				OR	J	UPITE	R'S SATEL	LITES			OCCULTA	TION	S OF STAR	SBYT	HE MOOI	v.
Day the M	Mercury.		Mars. Afternoon	Jupiter Morning	-	Saturn.	Neptune.	11		_ -			Names of	the Stars.	Magni- tude.	Times of disa ance & re-a ance of the	appear-	At which limb of the Moon.	Between what Latitudes visible.
1 6 11 16 21 26 31	п. м. 0 37 Morn. 11 23 10 54 10 41 10 39 10 45	n. M. 2 46 2 47 2 48 2 48 2 48 2 46 2 44	n. m. 0 56 0 49 0 43 0 36 0 30 0 24 0 18	H. M 11 39 11 23 11 7 10 52 10 36 10 20		H. M. 0 34 0 13 Aftern. 11 27 11 6 10 45 10 24	9 52 9 31 9 11 8 51 8 31 8 11 7 50	Are n		ile, Jupite r to the S		g too	Regulu 19 Capt 21 Capt Gamma 75 Tau	ricorni ricorni a Tauri	1 6 6 3 6	1 2 2 47 1 4 5 53 1 1 7 1 4 1 1 1 0 1 1 1 1 1 1 1 1 1 1 2 3 7 1 6 1 2 3 7 3 3	P.M. P.M. P.M. P.M. P.M. P.M. P.M. P.M.	Bright Dark Bright Bright Dark	17° N, & 90° N, 4° N, & 72° N, 6° N, & 72° N, 4° N, & 90° N, 21° N, & 90° N,
TIN	MES OF CH	ANGES o	F THE MC		1			F	RIGHT	ASCENSI	ONS A	ND DI	CLINAT			PLANETS			
An	MES of CHANGES of the MOON, and when she is at her greatest distance MERCURY.					RCURY.	VEN	US.	MAR	s.	JUI	ITER.	SATU	IRN.	URAN	us.	NEPT	UNE.	
	Apogee), or at her least distance (Perice), from the Earth in each Lunation.						Right Ascension	Decli- nation South.	Right Ascension	Decli- nation South.	Right Ascensi		Right Ascension	Decl natio Nort	Assension	Decli- nation North.	Right Ascension	Decli- nation South.	
Fi Fi L.	EW MOON RST QUAR ULL MOON AST QUAR ERIGEE	т. 13 21 г. 28	3 11 4 59	AM. A.M.	1 6 11 16 21	13h. 17 13 1 12 42 12 33 12 39		16 7 16 27	$ \begin{array}{r} 23 & 32 \\ 24 & 50 \\ 25 & 55 \end{array} $	13h. 36m 13 48 14 1 14 15 14 28	10 59 12 33 13 25	12h. 18 12 22 12 26 12 30 12 34	m 0° 45° 1 11 1 36 2 1	1h. 12m 1 10 1 9 1 7	4° 3′ 4 28 4 19 4 10 4 5	3 1 49 0 1 48 0 1 47	10 35 10 31 10 27	22h. 27m 22 27 22 27 22 27 22 27 22 57	10° 30′ 10 32 10 33 10 35 10 37

10 38

10 22 22 10 18 22



NOTES ON NATURAL HISTORY.—OCTOBER.

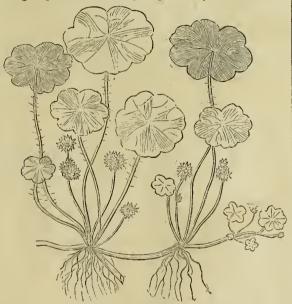
NOTES ON NATURAL HISTORY.—OCTOBER.

In this month many of the summer hirds take leave of this country, and the winter hirds arrive. Among the latter may he mentioned the wild swan, the wild goose, and the wild duck. All these aquatic hirds make a harsh screaming as they pass over the lund, which is the more annoying as they all fly at night as well as hy day. The stork is the only one of these hirds of passage which is not clamorous. "Before the storks take their departure from their northern summer residence," says Mr. Forster, "they assemble in large flocks, and seem to confer ou the plan of their projected route. Though they are very silent at other times, on this occasion they make a singular clattering noise with their hills, and all seems hustle and consultation. It is said that the first north wind is the signal for their departure, when the whole hody hecome silent, and move at once, generally in the night, and, taking an extensive spiral course, they are soon lost in the air." Cranes, on the contrary, are very noisy; but they are very rare in this conntry. Wild geese are, however, common; and the flocks are always in the shape of a wedge when they fly, so that the hirds may cut the air with less individual exertion. Sometimes, however, they change their line to the resemblance of an A and an L, and sometimes they form a straight line; hut the reason for these changes is not known. The Canada or cravat goose is only occasionally seen in this country: it is a remarkably heautiful goose, with a glossy hlack neck and white cheeks, which render it, as Mr. Waterton oheserves, "so particularly conspicuous, that those who have seen it once can never he at a loss to recognise it when viewed among all the other species of the goose tribe. There can he nothing," continues Mr. Waterton, "more enlivening to rural solitude than the trumpet-sounding notes of the Canada goose. They can he heard here [at Walton Hall] at most hours during the day, and often during the night." Mr. Waterton afterwards hought two barnacle

tion of Homer :-

Like leaves on trees the race of man is found— Now green in youth, now withering on the ground; Another race the following spring supplies, They fall successive and successive rise: So generations in their course decay, So flourish these when those are pass'd away,

Among the plants which are still growing luxuriantly on moist heaths and



MARSH-PENNYWORT.

in marshy places, may be mentioned the little plant called marsh-pennywort or white-rot (Hydrocotyle vulgaris); the latter name alluding to its supposed evil properties in giving the rot to sheep; and the former to the situations in which it is found, and the shape of its leaves. The flowers are inconspicuous, but the plant itself is rather pretty; and it has the advantage of looking green firsh when nearly all the vegetation around it has heen hrown and

At this season immense quantities of herrings are found on the southern coast of England. The shoals of this fish (which is said to derive its name from the German word heer, an army, it allusion to its countless multitudes) are first seen off the Shetland Islands in April and May; but in the succeeding months they seem gradually to advance southward; till at last, about the heginning of September, there appears on the south coast an immense mass of fish, divided its district and a second or south the south coast an immense mass of fish, divided into distinct columns of five or six miles in length, by three or four in hreadth.

These dense masses drive the water before them with a kind of rippling motion; and, as a writer on the subject has expressed it, "sometimes they sink for the space of ten or fifteen minutes, then rise again to the surface, and in bright weather reflect a variety of splendid colours, like a field of the most precious gems." Great shoals of pilchards appear in the same manner on the coast of Cornwall.

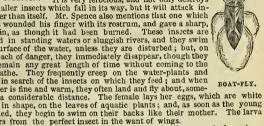
The water-scorpion (Nepa) is an extremely ferocious jusect, which is said to



The water-scorpion (Nepa) is an extremely ferocious linsect, which is said to he so savage as to destroy insects merely for the pleasure of killing them; as one that was put into a basin of water with some young tadpoles, is said to have killed them all without attempting to eat one. The common water-scorpion (Nepa cinerea) is found in ditches, ponds, and other pieces of stagnant water. These insects swim hut slowly, and spend most of their time at the hottom of the water, seeking in the mud those insects which serve them as food, and which they seize very forcibly with their crah-like feet. At night they leave the ponds, and fly about with the greatest rapidity. The larva only differs from the porfect insect in its want of wings. It proceeds from an egg of a very singular form: it is oval, and from one end proceed several delicate filaments, which give it the appearance of the seeds of some of the plants helonging to the Composite. The water-scorpion sometimes leaves the water, and is seen crawling on the grass.

The water-hoatman, or hoat-fly (Noto-

the water, and is seen crawling on the granter than the water, and is seen crawling on the granter, and is seen crawling on the granter of the water-hoatman, or hoat-fly (Noto-neta), is a very singular aquatic insect, which always swims on its hack, striking out its legs like oars, to propel itself along. It is very ferocious, and not only destroys all the smaller insects which fall in its way, but it will attack insects larger than itself. Mr. Spence also mentions that one which he caught wounded his finger with its rostrum, and gave a sharp, severe pain, as though it had been burned. These insects are only found in standing waters or sluggish rivers, and they swim on the surface of the water, unless they are disturbed; but, on the approach of danger, they immediately disappear, though they cannot remain any great length of time without coming to the top to breathe. They frequently creep on the water-plants and the mud, in search of the insects on which they feed; and when the weather is fine and warm, they often land and fly about, some



cannot remain any great length of time without coming to the top to breathe. They frequently creep on the water-plants and the mud, in search of the insects on which they feed; and when the weather is fine and warm, they often land and fly about, sometimes to a considerable distance. The female lays her eggs, which are white and long in shape, on the leaves of aquatic plants; and, as soon as the young are hatched, they begin to swim on their backs like their mother. The larva only differs from the perfect insect in the want of wings.

To those who visit the sea-coast, the sea-weeds which are washed on shore hy the tide afford a great source of enjoyment, from the heauty and variety of their forms and colours. The Algæ or sea-weeds are, in fact, the vegetation of the hottom of the sea; and most of them grow under water, being torn from their roots by the force of the rushing waters, and washed on the heach by the rolling waves. Some species, it is true, appear to he always loosely floating in the water; but by far the greater number "grow attached to rocks, stones, or other suhstances," heing fixed by the extension of the base of the stem into a broad concave plate, which either grasps the stone to which it adheres itself, or sends out numerous fihrils, which twine themselves round the rocks so firmly that they cannot he separated without laceration of their suhstance. The Algæ are all edihle; and, indeed, extremely nutritions, as they consist principally of alhumen and mucilage: the latter quality renders them very useful in coughs and other affectious of the chest, and as a substitute for isinglass in making ielly. Besides these qualities, some of the sea-weeds contain iodine, and most of them, when hurnt, yield kelp, which is used in the mnufacture of glass, &c. One of the most curious of all the kinds of sea-weed is what is sometimes called the Gulf weed; but it is also known hy the name of Sargissum, or Sea Grage. This Alga is a native of the Tropics, and is found principally in the Gulf of Mexico, but it i attached hy a flat hard disk, which, when clinging to the stone, looks just like one of the leather suckers with which hoys amuse themselves by carrying stones. The Halilarys, or sea tree, is a very common sea-weed, which is fixed to rocks and stones by a larger sucker, frequently from one to four feet long. The hladder Fûcus is another very common sea-weed, and, in fact, it forms the greet mass of the weeds thrown hy the sea upon the land, which are collected for the purposes of manure. It is sometimes called the sea-wrack, and in other places kelp-ware, as it is hurnt for the sake of making kelp. This weed has a number of little hladders in its fronds, which children amuse themselves with hreaking by clapping the fronds hetween their hands. The seed-vessels are shaped like a pine-apple, and they are produced at the extremity of the fronds. There are several other kinds of Fûcus, all of which are very common on the British coast. The sea-weed called Alària, or hadder-locks, is very good to eat; and what is called the tangle (Laminaria digitata) is boiled for the purpose of feeding cattle. Dr. Neill states, "that the stems in Scotland are sometimes made into knife-handles: for this purpose a pretty thick stem is selected and cut into pieces ahout four inches long; into these, while fresh, are stuck hlades of knives, such as gardeners use for pruning and grafting. As the stem dries it contracts and hardens, closely and firmly embracing the hilt of the blade. In the course of some months the handles become quite firm, and very lard and shrivelled, so that when tipped with metal they are hardly to be distinguished from hartshorn." There are many other kinds of sea-weed, particularly the heautiful pink Delessèria; the Ptilota plumòsa, which is sometimes of a pale crimson, and sometimes green; and several other extremely beautiful plants of the most brilliant colours and delicate texture.



P	7					-	C	AUTS NIE			ر و		טור כ	IEROON .	4	0	-	-					137
			1-			SUN			,			MOOI				D	URA	TION	OF	MOONLIGHT.	HIGH	WATER	1. 4
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D	D	CURRENCES, FES. TIVALS, &c.	I	CISES,	Befo	re 12 lock.	Height above horizon	SETS.	R18 Mor		Morr	ning.	Height above horizou	Aftern		0.	Clock	•	Moon'	O'Clock.	Mannin	Afternoon	e 2
			_				-		-							2h.	4h.	6h,	12.	6h, 8h, 10h,	Morning,	Atternoon	
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8	_	Length of night 14h 45m		7	16	O O	- 0	4 22		19		32	1/3		44				4		4 20	4 40	312
9	S	Lord Mayor's D.	1	9	10	- 0	21월	4 20	Aftern	- 1			$18\frac{1}{4}$	_	37				5		4 55	5 15	313
10		24TH S.aft. TRIN.	7	10	15	55	212	1 19		47	5	-	194	_	35		<u> </u>		6		5 35	5 55	314
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12	Tu	Camb. T. divides	7	14	15	~ -	$20\frac{3}{4}$	1 16		48	_		25	11 3	39				8		7 10	7 45	316
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17	S	25TH S. af. TRIN.	7	23	14	52	193	1 9	3	40	10	24	$46\frac{1}{4}$	4	9				13		0 15	0 35	321
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19	Tu	Alpha Arietis souths 10h	7	27	14	26	19 4	1 7	4	35	Morn	ing,		6 3	35						1 30	1 50	323
20	W	Ed. King & Mar.	7	28	14	12	1834	1 6	5	11	0	6	$54\frac{1}{2}$	7 4	19				16		2 10	2 30	324
21	TH	Princess Royal b.	7	30	13	57	181	1 4	5	56	1	23	57	9	1				17		2 45	3 5	325
22	F	St. Cecilia	7	31	13	42	1814	1 3	6	50	2	1 3	583	10	10[18		3 25	3 45	326
23	S	Old Martin. Day	7	33	13	26	18# 4	1 2	7	54	3	0 3	59 ¹ / ₄	11	8				19		4 9	4 30	327
24	S	26TH S. aft. TRIN	7	34	13	8	18	1 0	9	6	4	0.5	58	11 5	58				20		4 50	5 15	328
25	$\widetilde{\mathbf{M}}$	Mich. Termends.	7	36	12	50	1733	3 58	10	22	4	57 3	551	Afterno	on				21		5 40	6 10	329
26	Tu	[Catherine]	7	37	12	32	1713	3 57	11 -	40	5	52 5	$51\frac{3}{4}$	1	8						6 40	7 10	330
27	W	Princess Mary Adelaide [horn, 1833.	7	39	12	12	17 3	3 56	Morni	ng.	6	45	17흥	1 3	36				23		7 40	8 20	331
28	TH	Day breaks 5h 38m	7	40	11	52	1713	3 55	0	57	7 :	35	12 Î		9				21		9 5		332
29	F	Twilight ends at 5h 58m.	7	42	11	31	17 3	3 55		13	8	243	371		22	11/1/2			90	7/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	10 15 1	0 55	333
30		St. Andrew	7	44	11	9	163			29		13^{6}	$32\frac{3}{4}$	$\frac{1}{2}$	7				216		11 30 1	1 55	334
_	~		1	1			-04	- 1					4		12	<u> </u>		-			- 2 - 0 0 1 1		1

NOVEMBER.

THE SUN is situated south of the Equator, and Is moving south. He passes, on the 22nd day, at 3h. 7m. P.M. from the sign Scorplo to Sagittarius, having been in the former sign 29 days 20 hours and 54 minutes. He rises and sets on the 1st noar the E.S.E. and W.S.W.; and on the 26th, at the S.E. by E. and S.W. hy W. points of the horizon. On the 1st day his distance from the earth is 94.224,000 miles.

The Moon is in Virgo till the 3rd; on which day, at 9h. P.M., she enters Libra, Ophiuchus on the 5th, Sagittarius on the 7th, Capricornus on the 10th, Aquarius on the 12th, Pisces on the 14th, Cetus on the 15th, near Pisces and Cetus on the 17th, and she is moving on the hourhalter of Aries and Cetus on the 19th: she enters

daries of Aries and Cetus on the 19th; she enters Taurus on the 19th, crosses the Milky Way on the 21st, enters Gemini on the 22nd, Cancer on the 23rd, Leo on the 25th, and Virgo on the 27th.

She is shove the hortzon when the snn is below; during the morning hours, from the 15th to the end of the month; and during the evening hours, from the 6th to the 22nd.

hours, from the 6th to the 22nd.

She is on the Equator on the 1st; at her extreme south position on the 8th: crosses the Equator on the 16th; at her extreme north position on the 22nd; and is again on the Equator on the 29th, going southward.

She is near Jupiter on the 1st; Mercury on the 2nd; Mars on the 4th; Venus on the 7th; Saturn on the 16th; Uranus on the 17th; and Jupiter on the 29th.

MERCURY is in the constellation Virgo till the

MERCERY is in the constellation Virgo till the 8th; in Libra from the 9th to the 23rd; in Scorplo from the 24th to the 27th; and he moves on the boundaries of Scorplo and Ophiuchus to

on the boundaries of Scorpio and Ophiuchus to the end of the month. He rises on the 1st at 5h. 19m.; on the 10th, at 6h. 6m.; and on the 25th, at 7h. 30m. The Sun ou these days rises 1h. 37m., ih. 4m., and 6m. after the planet. The planet rises on the 1st, at the E. by S.; on the 12th, at the E.S.E.; and on the 25th, at the S.E. by E. points of the horizon. He moves eastward among the stars during the month; is nesr the Moon on the 2nd, and Mars on the 28th. The position they occupy in the heavens at these times will be seen by reference to the annexed diagram, showing the path of Mercury in the heavens.

PATH OF MEASURY FROM NOVEMBER 1 TO DECEMBER 13, 1850.



Scale, 12 degrees to one inch.

Venus is in the constellation Scorpio throughout the month.

She is an evening star; and sets on the 1st, at 6h. 2m. P.M.; on the 15th, at 5h. 42m. P.M.; and on the last day, at 5h. 10m. P.M.; near the S.W. point of the horizon all the month. She moves slowly eastward to the 23rd; is stationary from the the 24th to the 27th; and moves slowly westward among the stars to the 28th. She is at her greatest hrilliancy on the 10th; and is near the Moon on the 7th. Her path in the heavens is shown in the annexed engraving; and for her telescopic appearance see next month.

Mass is in the constellation Libra till the 19th; on which day he enters Scorpio. He sets on the 1st, at 4h.52m. P.M.; and on the last day, at 3h. 47m. P.M.

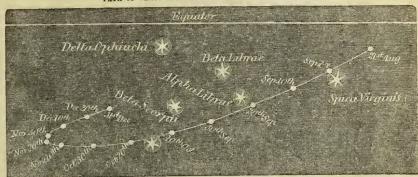
He sets on the 1st, at 4h. 52m. P.M.; and on the last day, at 3h. 47m. P.M.

Till the 24th he sets a few minutes after the Sun; and after the 24th, a few minutes hefore the Sun. He sets near the S.W. by W. point of the horizon; he is moving eastward among the stars; is near the Moon on the 4th, and Mercury on the 28th. His altitude above the horizon when he souths, on the 1st, is 21° ; and it is 16° ; on the last day.

JUPTER Is in the constellation Virgo throughout the month.

He rises on the 1st at 4h. 15m. A.M.; and on the last day at 2h. 51m. A.M.; at the E. point of the horizon. His altitude on southing, on the 1st, is $35^{\circ}\frac{1}{3}$; and on the last day, is $33^{\circ}\frac{1}{4}$. He moves eastward among the stars; is near the

PATH OF VENUS FROM AUGUST 21 TO DECEMBER 31, 1850.



Scale, 24 degrees to one inch.

Moon on the 1st, and again on the 29th. His path among the stare is shown in the diagram in May.

JUPITER'S SATELLITES.—A few Immersions, of which those of the first, second, and third Satellites are visible. The relative position of the Satellites to Jupiter at the instant of the celipse is shown in the annexed diagram, as viewed through an inverting telescope. an inverting telescope.

RELATIVE POSITION OF EACH SATELLITE TO JUPITER AT THE TIME OF IMMERSION OR EMERSION.

1st Sat. 2nd Sat. 3rd Sat. Lm

SATURN is in the constellation Pieces throughout the month. Satuan is in the constellation Pisces throughout the month. He is visible throughout the greater part of the night. He rises before the Sun sets; and sets midway hetween the W. and W. hy N. points of the horizon, on the 1st, at 4h. 46m. A.M.; and on the last day, at 2h. 44m. A.M. He souths at an altitude of 42° nearly. He moves slowly westward among the stars; and is near the Moon on the 16th. See the diagram in September. Uranus is in the constellation Aries throughout the month. He sets on the 1st, at 6h. 3m. A.M.; and on the 30th, at 4h. 2m. A.M. He souths at 10h. 4m. P.M., at an altitude of 48°2, on the 15th. He moves slowly westward among the stars; and is near the Moon on the 17th. NEPTONE sets on the 1st, at 0h. 55m. A.M.; and on the last day, at 10h. 59m. P.M.

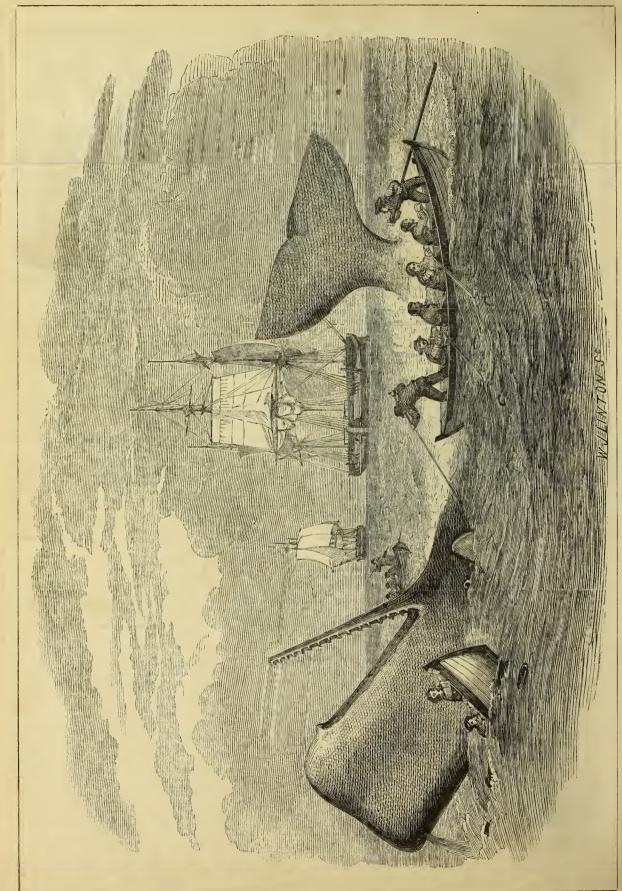
10h. 59m. P.M.

ON THE APPARENT MOTIONS OF THE SUN, MOON, AND PLANETS. (Continued from page 41.)

planets are not always, like those of the Sun and Moon, in the same direction, but that they generally are moving in that direction, viz. from west to east. Till the planets Mercury and Venus reach their greatest eastern elongation, or those planets, whose distances from the Sun are greater than that of the Earth, reach their eastern quadratures, their apparent motions are from west to east; in the course of a few days afterwards they seem to be stationary among the stars. (Concluded on page 49.)

			 										
of onth.	TI	MES OF T	HE PLAN			OR.	JUPITER'S	SATELLITES.	OCCULTAT	TION	S OF STARS BY T	HE MOO	N.
Days of the Month.	Mercury. Morning.	Venus. Afternoon	Mars.	Jupiter.	Saturn. Afternoou	Uranus. Afternoon	let Sat. Immersion.	3rd Sat. Immersion.	Names of the Stars.	Magni-	Times of disappearance & re-appearance of the Star.	limbof the	Between what Latitudes visible.
1 6 11 16 21 26 30	H. M. 10 47 10 56 11 6 11 18 11 30 11 42 11 53	н. м. 2 43 2 38 2 31 2 21 1 7 1 49 1 31	M. M. 0 16 0 11 0 6 Morn. 11 56 11 51 11 48	H. M. 10 1 9 45 9 29 9 13 8 57 8 40 8 27	H. M. 10 19 9 59 9 38 9 17 8 56 8 36 8 20	H. M. 7 46 7 26 7 6 6 46 6 26 6 6 5 50	D. H. M. 23 4 42 A.M. 30 6 36 A.M. 2nd Sat. 15 5 37 A.M.	р. н. м. 15 6 7 А.М.	A Star 33 Sagittarii 45 Aquarii Chi 3 Orionis	6 6 6 5	D. H. M. { 7 6 29 P.M. { 7 6 45 P.M. { 8 5 8 P.M. { 8 6 23 P.M. { 12 9 25 P.M. { 12 10 3 P.M. { 21 9 10 P M. { 21 10 5 P.M.	Bright Dark Bright	1° S. & 60° N. 25° N. & 68° N. 20° N & 76° N. 12° N. & 78° N.
							RIGHT ASCE	NSIONS AND DECL	INATIONS OF	тне	PLANETS.		

TIMES OF CHANGES OF THE MOON,	ne .				R	GHT A	SCENSI	ONS AI	ND DECI	LINAT	IONS OF	THE I	PLANETS			
And when she is at her greatest distance	of the	MERC	URY.	1	VEN	US.	MA	RS	JUP1	TER.	SATU	RN.	URAN	US.	NEPT	UNE.
(Apogee), or at her least distance (Peri-	Mo	Right	Decli-		light	Decli-	Right	Decli- nation	Right	Decli-	Right	Decli-	Right	Decli-	Right	Decli-
gee), from the Earth in each Lunation.	-	Ascension	South		ension	South.	Ascension	South.	Ascension	South.	Ascension	North	Ascension	North.	Ascension	South,
NEW MOON 4D. 2H. 40M. A.M.	1	13h. 28m	7º 0	171	ı. 25m	27° 51′	14h. 58m	17° 0′	12h. 42m	3° 19′	1h. 3m	3° 43′	lh. 45m	10° 13′	22h. 26m	10° 38′
First Quart. 11 11 15 PM.	6	13 57	10 15	17	39		15 12	17 1	12 46	3 42	1 2	3 36	1 44	10 9	22 26	10 38
FULL MOON 19 4 35 P.M.	11	14 28	13 24	17	52	27 54	15 27	18 59	12 50	4 5	1 0	3 30	1 43	10 5	22 26	10 37
LAST QUART. 26 0 32 P.M.	16	14 59	16 21	18	2	27 37	15 41	19 52	12 53	4 27	0 59	3 24	1 42	10 1	22 26	10 35
APOGEE 11 2 P.M.	21	15 30	19 0	18	7	27 10	15 56	20 42	12 57	4 48	0 58	3 20	1 42	9 57	22 26	10 32
PERIGEE 23 3 P.M.	26	16 3	21 16	18	9	26 30	16 11	21 26	13 0	5 8	0 58	3 16	1 41	9 54	22 26	10 30



NOTES ON NATURAL HISTORY.—NOVEMBER.

THE 1st of November is All Saints' Day; and the night hefore, which is called Allhallow E'en, is celehrated by various rural sports and modes of divination. With the commencement of November, however, the gaiety of nature seems to cease. Among birds, however, November is a gayer month than July and August; for, in November, many of them sing as agreeably as in early spring. In this month most of the summer hirds take their departure, but the winter birds arrive to take their places. Among these winter hirds, one of the hest songsters is the redwing, which arrives in flocks from the north and north-east of



Europe, not later than the first week in November, arriving generally a week or two before the fieldfare; and, when the winters are severe, Mr. Yarrell informs us that it has heen observed "that the redwings are unable to hear hard weather so well as the fieldfares. While in this country, the redwings inhabit parks and so well as the fieldfares. While in this country, the redwings inhabit parks and pleasure-grounds that are ornamented with clumps of trees; and, like the common thrush, which they most resemble in their external appearance, they seek their subsistence in mild and open weather in pasture lands and moist meadows, feeding principally on worms, snails, and other soft-hodied animals. They are much less inclined to feed on berries than most of the thrush tribe; and, should the resources usually obtained by their scareb on the ground he closed against them by long-continued frost and snow, the redwines are the first among hirds to suffer; and during some severe seasons, such as 1799, 1814, and 1822, hundreds have heen found almost stayred, alike unable to prosecute their journey fartlers south to more congenial countries, or to hear the rigour of this." The song of the redwing is generally allowed to he very beautiful; and Linnæns, several times in bis Tour in Lapland, meutions the song of the redwing, "whose amorous warblings from the top of a spruce fir," he says, "were delightful; its high and varied notes rivalling those of the nightingale hersolf." Other writers praise the "delightfully wild notes" of this bird, and mention that in Sweden and Norway, where it breeds, it is excessively sby when any one approaches its nest.

nest.

Oysters o're in perfection in this month. Thoy are generally found fixed to a rock, or some other submarine object, apparently enjoying only the nourishment brought by the waves, and scarcety giving any sign of life except by the npening and shrutting of the valves. The oysters adhere to stones and other objects by means of a mucilaginous liquid with which they are covered as soon as they are forfoed, and which seems to be of the same nature as that with which they increase their shells. In some places, particularly at the mouths of the great frican rivers, where there are great quantities of mangrove trees growing with antir trunks several feet deep in the water, great quantities of oysters are found attached to the roots and lower hranches of the trees; so that, as Mrs. Lee tells us, it is by no means an uncommon occurrence to send a slave to cut off a hranch or two of the trees, which us, it is by no means an uncommon occurrence to send a slave to cut off a hranch or two of the tree-oyster to furnish a meal. She adds, that these oysters, which are generally very small, are remarkably delicate in their flavour. Oysters are also often found fixed to the backs of crustaceous animals—such as crabs and lohsters; and occasionally to the shells of other molluscous animals. As oysters belong to that class of molluscous animals which are furnished with two muscles attaching them to their shells, they can shut the valves with great force, and compress them close with extraordinary tenacity. Several curious stories are told of monleys heing caught by oysters in this manner; and on one occasion, it is said thit a cat, having ventured on the sea-shore at low water, and having attempted the seles an oyster fixed firmly to a rock, was caught by the oyster closing the falves of its shell the moment it was pricked by the claw of the cat, and held there till it was drowned by the coming in of the tide.

The fieldare, which is very nearly allied to the redwing, appears later in the

and held thre till it was drowned by the coming in of the tide.

The fieldare, which is very nearly allied to the redwing, appears later in the season, arriving in large flocks, which spread themselves over the whole country, covering the pasture lands, and particularly the neighbourhood of rickyards, in search of forms and slugs, or any other soft-hodied animals that they can find, though of the appearance of frost and snow they fly to the hedges and feed upon any serries they can find. The call note of the fieldfare is very harsh; and though it song is harmonious, it is very inferior in beauty to that of the redwing. The common song thrush remains in England all the year, and it feeds principall on insects, worms, and snails, picking the latter off the walls or trees any whichly by have fixed themselves to mass the winter, and breaking the shell on which hey bave fixed themselves to pass the winter, and breaking the shell very adraly by beating it against a stone or a wall.

At this eason, when the summer flowers are

very adriftly by beating it against a stone or a wall.

At this-eason, when the summer flowers are all over, and the ground is frequently evered with snow, there is acarcely anything left in the open air to interest the love of a garden. It is true there is the resource of greenhouse plants; but platts inpots, when kept in a room, have generally an unhealthy appearance, as they be seldom set out in the open air, and they are kept continually in an atmosphre which is highly injurious to them. At this stason, therefore, it is very devable to try experiments on vegetation, and the method which has been decreased of reising relates in heavier, the server agreeable subdiscoved of raising plants in hyacintb-glasses affords a very agreeable substitute f the interest which is felt in spring by the amateur gardener in watching thevelopement of vegetation in the open air. It is not exactly known with whom he idea of raising plants in this manner first originated, but it has been practififor some years, as some ladies residing near Epsom had, in 1835, eaten nuts fm bazel hushes which they had reared in glasses, and afterwards planted ent in the open ground. The mode of managing acoms in hyacinth-glasses is thus you in the Field Naturalist for April, 1833:—" Let a common byacinth-glass, other glass if more convenient, be filled about half or a third part full of

water; and a piece of card he prepared as a cover for the opening of the glass, so as to fit close and exclude the air. Fasten a strong thread or a piece of brass wire round an acorn—not iron wire, for it will rust

and corrode the acorn, and frustrate the experiment. Suspend the thread or hrass wire from the card, or Suspend the thread of mass were from the card, or from a small transverse har of wood or metal heneath it, so that the acorn may be sustained at a short distance above the surface of the water, but near enough for the steam, which will be generated by the glass being kept in a warm room, to be comby the glass heing kept in a warm room, to be com-municated to the acorn, from which it will depend in a large drop. In a few weeks the germ will be found to burst the shell of the acorn; and in about a fortnight afterwards, the radicle, or little root, will protrude itself through the cleft, and take a down-ward direction into the water, where it will he continually extended and enlarged, by degrees throwing out external fibres, until, after a few days more, the other member of the germ will he seen to rise upwards till it comes near the card that covers the vessel, through which a hole must be cut to the vessel, through which a hole must be cut to allow of its free passage. This forms the stem of the tree, which will sbortly be seen to throw out two cotyledons, or seed leaves, at its extremity, and shortly again other leaves; till, in the course of a few weeks from the commencement of the ex-periment, the tree will have grown to the height of



periment, the tree will have grown to the height of several incbes, and be ornamented at its top with leaves two or three inches long, and wide in proportion, besides smaller ones breaking out at its sides, the root meanwhile baving continued growing to a length exceeding that of the stem." In the year 1842, an account of this method of growing oaks was given in Paxton's Magazine of Botany, substituting a piece of cork for the card, and thread for the brass wire. In all other respects the experiment was the same. Supposing the acorn to he put into the glass in November, it will probably hegin to germinate in January, or sooner, according as the acoru was fresh or old. If the acorn were hut just gathered when it was put in, it will probably hegin to germinate in the course of a month or six weeks at farthest; but if it were an acorn of the previous year, it would most probably net show any signs of life for a couple of in the course of a month or six weeks at fartbest; but if it were an acorn of the previous year, it would most prohably not show any signs of life for a couple of months, or even more. The great point to he attended to is, keeping the cavity in the upper part of the glass above the water firmly closed, so as to prevent any evaporation of the water into the open air, since it will be impossible for the acorn to germinate unless the moisture which rises from the water is condensed and thrown hack upon it; for it must be observed that air and moisture are hoth essential to germination, and that if the acorn is suffered to he in the water the air cannot have access to it so as to make it grow. Many instances, indeed, bave heen known of seeds having remained under water for several years without vegetating; but which the moment they were exfor several years without vegetating; hut which, the moment they were exposed to the air, hegan to grow: while, on the other hand, seeds, when kept perfectly dry, though they are exposed to the influence of the air, will remain an extraordinary length of time without germinating.

Among the many interesting plants grown in the Botanic Garden at Kew, may he mentioned the Opiantia cochinillifera, a kind of Iudian fig, which is often attacked hy a species of Cóccus, which, when dried, forms the scarlet dye which we call cochineal. This Indian fig is very common in Mexico, where it is called the Nopal-tree, and where it is considered of so much consequence, from the value of the insects hred upon it, that it is introduced in the arms of the Republic. The Opuntia is a species of Cáctus, with large, flat, roundish, leaf-like stalks, which produce the flowers and fruit, without the tree hearing any leaves properly so called On these flat, leaf-like stalks, which are extremely succulent, there often appears a white woolly substance, resembling what is called the American blight on apple-trees; and this woolly substance is the covering of the female cochineal insect, which is the unsect used for

CACTI).

the dye. When fully grown, these insects are collected in Mexico and insects are collected in Mexico and other countries where the plant grows in great abundance, hy women, wbo brush them off with the tail of a squirrel or a deer. They are then killed by dipping The FFNALE OF THE COCCUS them in boiling water, or exposing them to heat in ovens or the sun, and are then ready for sale. The and are then ready for sale. Tho cochineal insect was formerly con-

cochineal insect was formerly confined to Mexico; hut, in the hegiming of the year 1777, M. Thierry de Menonville was employed by the Frencb Government to procure some of the insects from Mexico, for the purpose of introducing them into the French West Iudia Islands—an enterprise for which four thousand hivres had been allotted by the French Government. M. Thierry de Menonville "proceeded by the Havannah to la Vera Cruz, and was there informed that the finest cochineal insects were produced at Guexaca, distant ahout seventy leagues. Pretending ill-health, be obtained permission to nse the haths of the river Magdalena; but, instead of going thither, he proceeded, through various difficulties and dangers, as fast as possible to Guaxaca, where, after making his observations, and obtaining the requisite Information, he affected to believe that the cochineal insects



MALE OF THE NEAL INSECT

information, he affected to believe that the cochineal insects
were highly useful in compounding an ointment for his pretended disorder (the were highly useful in compounding an ointment for his pretended disorder (the gout), and therefore purchased a quantity of Nopals covered with these insects, of the fine or domestic breed, and putting them in boxes with other plants, for their hetter concealment, be found means to get them away as hotanic trifles, unworthy of notice, notwithstanding the prohibitions by which the Spanish Government had endeavoured to hinder their exportation; and being afterwards driven by a violent storm into the bay of Campeacby, be there found, and added to bis collection, a living Cáctus, of a species which was capable of nourishing the fine domesticated coebineal. After which, departing for St. Domingo, he arrived safely with bis acquisitions, on the 25th of September in the same year, at Port-au-Prince." The insects thus introduced succeeded so well, that in ten or twelf. Strety with his acquisitions, of the zone of september in the same year, at rorlar-Prince." The iusects thus introduced succeeded so well, that, in ten or twelve years, St. Domingo became a powerful rival to Mexico in the production of the cochineal; but, during the political troubles of St. Domingo which followed the French Revolution, the plantations were destroyed. The value of the cochineal exported from Mexico is said by Humboldt to be about £500,000 annually. It is the female insect only from which the dye is taken; and the male insect has



						Mar -	PIE		(5)		Mine		and P	750	- Th	GRESNO	-		Marin	RIDHIN	innemot.
	1	-	Concession of the Land	1-			SUN					OUT			_	DURATION	OF N	MOONLIGHT.	nigh	WATER	of ear.
-	I	W	ANNIVERSARIES, OC- CURRENCES, FES-			_	OUTH	٥.		Rises.		0034	3. or =	SETS	5.	Before Sunrise.	1200	After Sunset.	AT LONIZO		E 0
)	D	TIVALS, &c.	Ri	SES.	Befor	re 12 ock.	igh oove rizo	SETS.	Morning.	Morn	ing.	56 - 3	Afterno		O'Clock.	Moon'	O'Clock.	Maminu	Afternoon	Day the Y
	-1	İ		l			—— i	a phor								2h. 4h. 6h.	14	6h, 8h, 10h.	-		
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	3	Tu	Length of night 15h 56m	7	48	10	0	$16\frac{1}{2}$	3 52	7 4	11	41	21		12		0		1 30	1 55	2 1
	4	W	Day hreaks 5h 45m	7	49	9	36	$16\frac{1}{4}$	3 51	8 39	After	noon			51		1		2 10	2 30	338
	5	TH	Twilight ends 5h 56m	7	51	9	11	$16\frac{1}{4}$	3 51	9 9	1	23	18	5	35		2		2 50	3 10	33.9
	6	F	Nicholas	7	52	8	46	16	3 51	10 1	2	13	$17\frac{3}{4}$	6	26		3		3 30	3 45	340
	7	S	Fomalhaut souths 5h 45m	7	53	8	20	15	3 5u	10 44	3	2	183	7 :	23		4		4 5	4 20	341
	8		2DS. in ADVENT.	7	54	7	54	153	3 50	11 21	3	49	$21\frac{1}{4}$	8	22		5		4 40	5 0	342
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,	0	The	Alpha Pegasi souths 5h 41m	7	57	7	0	154	3 49	Afternoon	5	19	263	10	30		7		5 55	5 15	344
	1	W	Alpha Andromedæ souths	7	58	6	39	151	3 49	0 39	6	2	30₹		34		C		6 40	7 0	345
	0	T	6h 40 P.M Alpha Arietis souths 8h 33m	7	59	6	1	151	3 49	1 1	6	45	35	Morni	- 0		9		7 30		346
	2	IH	P.M.	0		5	96	151	3 49	1 20	7	28	391		40		10		8 35		347
	3	F	Lucy Alpha Cetí souths 9h 21m	8	0		36	157	3 49	1 43		1/	1.1		47		\bar{i}_1		9 45		348
	4	S	P.M.	U	0	5	/	104		2 6	1 -	14	481	_	57		12		10 50		349
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]	8	W	Ember Week	8	_		11	15	3 50	3 49	1		$58\frac{1}{4}$		39		15		_		352
]	9	TH	Day decreased 8h 50m	8	_	_	41	15	3 50	4 36	Mon	ing.			51				1 40	-	353
2	20	F	Pleiades souths 9h 41m P.M.	8	5	2	11	15	3 51	5 37	0	46	4		57		17		2 30	1	354
2	21	S	St. Thomas	8	6	1	41	15	3 51	650	1	47	$58\frac{3}{4}$	_	50		18		3 15		355
9	22	S	4THS. inAdvent	18	6	1	12	15	3 51	8 7	2	48	$56\frac{3}{4}$	10	37		19		3 59		356
9	23	$\widetilde{\mathbf{M}}$	Shortest day	8	6	0	42	15	3 51	9 26	3	46	$53\frac{1}{4}$	11	12		20		4 45		357
	24	T_{tr}	Length of day 7h 45m	8	7	0	12	15	3 52	10 44	4	41	49	11	42		21		5 35		358
6	5	w	CHRISTMAS DAY			Aft	er 12 lock.	15	3 52	Morning	5	33	44	Aftern	10011		T		6 30	6 55 3	359
1	26	Tu	St. Stephen	8				151	3 53	0 2	6	23	$39\frac{1}{4}$	0	30		23		7 25	7 15 3	360
6	7	F	St. John	8		1 .	18	151	3 54	1 17	7	11	$34\frac{7}{4}$	0	52		24		8 30	9 3	361
6	28	S	Innocents	8	_	1 -	48	154	3 55	2 31	7	59	$29\frac{3}{4}$	1	17		27		9 40	10	362
	29		1st S. aft. Chris	111	_	1 7	17	151	3 56	3 43	8	47	25 1	2	42		26		10 50	11 :3:	363
		S	Aldebaran souths 9h 51m			2	16	151	3 57	4 53		36	2		$1\overline{2}$		27		11 55	No Tida	364
	30	M	P.M.	10		_	16	151				26	4	_	49		28		0 25	0 43	365
	51	IU	Silvester	18	9	3	16	$15\frac{1}{2}$	0 00	0 03	7.10	20	194		73	Tomorna suns		- anasanasanasanas			

DECEMBER.

THE SUN is situated south of the Equator, and on the 22nd day attains his extreme south position. From the 23rd day he is moving northward. He passes from the sign Sagittarius to Capricornus, completing the tropical year, on the 22nd day, at 3h. 38m. Am., having heen in the former sign 29 days, 12 hours, and 31 minutes. On the 1st day he is 93,636,000 miles from the Earth; and this distance decreases to 93,412,000 miles by the 31st.

tance decreases to 93,412,000 miles by the 31st.

The Moon enters Libra on the 1st; Scorpio on the 2nd; Ophiuchus on the 3rd; Sagittarins on the 5th; Capricoruus on the 7th; Aquarius on the 9th; Pisces on the 11th; Cetus on the 12th. She is near Pisces, Cetus, and Aries till the 16th, on which day she enters Taurus; crosses the Milky Way on the 19th; Gemini on the 19th; Cancer on the 21st; Leo on the 22nd; Virgo on the 24th; Libra on the 28th; and Ophiuchus on the 30th.

She is clove the beginning when Sun is below divising the seconds.

She is above the horizon when the Sun is below, during the morning hours, from the 17th to the 25th; and, during the evening hours, from the 6th to the

from the 17th to the 25th; and, during the evening hours, from the 6th to the 18th.

She reaches an extreme south position on the 5th; crosses the Equator on the 13th, going northward, and reaches an extreme north position on the 20th; then begins to move southward; crosses the Equator on the 26th; and almost reaches an extreme south position on the last day.

She is near Mars and Mercury on the 3rd; Venus on the 5th; Saturn on the 18th; Uranus on the 14th; Jupiter on the 26th; and Venus on the 31st.

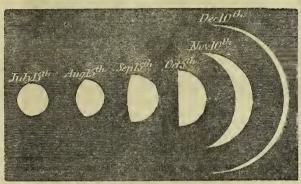
Mercury moves on the boundaries of Scorpio and Ophiuchus to the 7th; and he is in Sagittarius from the 8th to the end of the year.

Ile sets with the Sun for the first few days; and he is an evoning star towards the middle and end of the month. He sets, on the 15th, at 4h. 14m.; and on the last day at 5th. 23m. The Sun sets on these days 25m. and 1h. 25m. respectively before the planet sets. He sets, throughout the month, nearly midway between the S.W. by W. and the S.W. points of the horizon. He moves eastward among the stars during the month; is near the Moon on the 3rd; and Venus on the 15th. His path in the heavens till the 13th of this month is shewn in the disgram in last month; after this time, his rapidity of motion towards the east continues about the same; on the 15th, he reaches his lowest point; and after this time his motion is towards the Equator, or upwards.

Venus is in the constellation Sagittarius till the 22nd; and in that of Scorplo till the 23rd.

the 23rd.

TELESCOPIC APPEARANCE OF VENUS EROM JULY TO DECEMBER, 1850.



Scale, 40 seconds of arc to one Inch.

She is an evening star at the heginning of the month; and sets, on the 1st, at 5h. 4m. p.m.; and, on the 1sth, at the same time as the Sun, shout midway between the S.W. hy W. and S.W. points of the horizon. She is moving slowly westward among the stars; is near the Mon on the 5th; Mercury on the 12th; Mars on the 20th; and the Moon again on the 31st. She is in inferior conjunction with the Sun on the 16th. Her path in the heavens is shewn in the diagram of last month; and her telescopic appearance at the heginning of the month is shewn in the above engraving: towards the end of the month her appearance will be the same as at the heginning of the month, except that the crescent will be in the opposite direction.

Maas is in the constellation Scorpio till the 18th; on this day he passes into

Sagittarius.

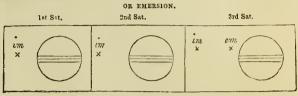
He rises and sets throughout the month very nearly at the same time as the Sun rises and sets; and he is, therefore, unfavourably situated for observation. He is moving eastward among the stars; is near the Moou on the 3rd, and Venns on the 20th. His altitude above the horizon when he souths, ou the 1st, is 16%; and on the last day is 14% nearly.

JUPITER is in the constellation Virgo throughout the month.

JUPITEE is in the constellation Virgo throughout the month. He rises, on the 1st, at 2h. 48m. A.M.; and, on the the last day, at 0h. 16m. A.M., midway hetween the E. and the E. by S. points of the horizon. His altitude on southing, on the 1st, is 33°; aud, on the last day, is 31°½. He moves slowly eastward among the stars, and is near the Moon on the 26th. His path in the heavens is shewn in the diagram in May.

JUPITEA'S SATELLITES.—A few eclipses are visible. The relative position of the Satellites to Jupiter at the instant of the eclipse is shewn in the annexed diagram, as viewed through au inverting telescope.

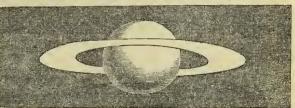
RELATIVE POSITION OF EACH SATELLITE TO JUPITER AT THE TIME OF IMMERSION



SATURN is in the constellation Cetus throughout the month.

He is an evening star; and sets, on the 1st, at 2h. 40m. A. M.; and on the last day at 42m. after midnight. He souths at an altitude of 41% nearly. He is almost stationary among the stars, and is near the Moon on the 13th. His position in the heavens is shewn in the diagram in September. The ring has opened a good deal during the year; and the telescopic appearance of the planet is shewn in the annexed diagram.

TELESCOPIC APPEARANCE OF SATURN IN DECEMBER, 1850.



Scale, 20 seconds of arc to one inch.

Uaanus is in the constellation Pisces throughout the month. He sets, on the 1st, at 3h. 58m. a.m.; and, on the 31st, at 2h. 1m. a.m. On e 15th, he souths at 8h. 3m. P.M., at an altitude of $48^{\circ}\frac{1}{4}$. He is ucar the Moon the 15th on the 14th.

NEPTUNE sets, on the 1st, at 10h. 54m. P.M.; aud, on the last day, a 8h. 58m. P.M.

ON THE APPARENT MOTIONS OF THE SUN, MOON, AND PLANETS (Concluded from page 45.)

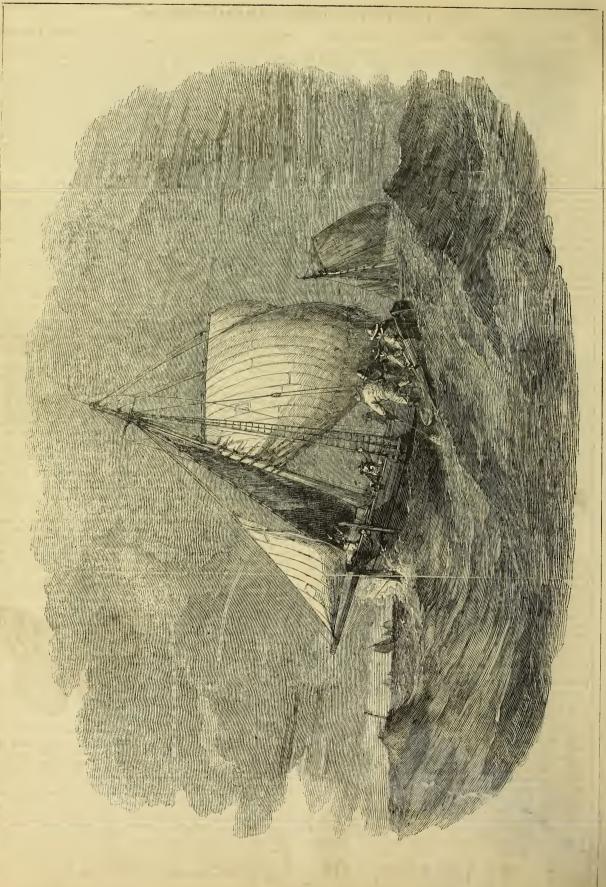
After a few days more, their apparent motion is in the opposite direction, or from After a few days more, their apparent motion is in the opposite direction, or from east to west. In this case the motion is said to he retrograde; this movement is slow at first, but is continually increasing in velocity till the planet (Mercury or Venus) is in inferior conjunction; or, in the case of the superior planets, in opposition: it then gradually decreases, till the planet hecomes stationary a second time; after which it hegins to move from west to east, or to have direct motion, as hefore, and proceeds to pass through another series of similar motions. The retrograde motion is not of long continuance.

The general phenomena presented by the motions of the planets may he hriefly stated to he as follows:—That, through the greater parts of their orbits, they move from west to east—that is, from the time of reaching their western elongation or quadratures, to the time of reaching their eastern extremes: having their eastern extremes:

gation or quadratures, to the time of reaching their eastern extremes; having heen in conjunction with the Sun in the meantime, hecoming stationary, then moving from east to west, and forming at every succeeding opposition a kind of loop. (See the various diagrams.)

s of onth	TIM	IES OF T		NETS SOU E MERID		OR	JUPITER'S S		occui	LTAT	IONS OF STARS B		
Days the Mon	Mercury.		Mars. Morning.	Jupiter. Morning.		Neptune.	Ist Sat. Immersion.	3rd Sat. Im. I. Emer. E	Names of the Stars.	Magni- tude.	Times of disappear- ance & re-appear- ance of the Star.	At which limbof the Moon.	Between what Latitudes visible.
1 6 11 16 21 26 31	n. M. 11 56 After. 0 25 0 40 0 55 1 9 1 21	H. M. 1 26 1 0 0 30 Morn, 11 25 10 56 10 29	H. M. 11 47 11 43 11 39 11 35 11 31 11 28 11 25	H. M. 8 24 8 7 7 50 7 34 7 16 6 59 6 42	н. м. 8 16 7 56 7 36 7 16 6 56 6 37 6 17	и м. 5 46 5 26 5 6 4 44 4 27 4 7 3 48	D. H. M. M. 16 4 52 A.M. 23 6 45 A.M. 32 3 7 A.M. 2nd Sat. 1mmersion. 17 5 5 A.M.	D. H. M. 21 4 38 A.M. E. 28 5 55 A.M. I.	A Star f Tauri 75 Tauri Chi 2 Orionis	4 5 6 6	n. H. M. 115 8 20 P.M. 15 9 10 P.M. 16 3 54 P.M. 16 4 48 P.M. 17 4 33 P.M. 17 5 28 P.M. 19 5 25 A.M.	Bright Dark Bright Dark Bright	9° S. & 66° N. 28° N & 90° N. 25° N. & 90° N. 3° N. & 64° N.

TIMES OF CHANGES OF THE LOON,	spe .	1		1	RIGHT	ASCENS	IONS A	ND DEC	LINAT	IONS OF T	HE I	PLANETS	š		
And when she is at her preatest distance	of	MERCI	JRY.) VEN	US.	MAH	ts.	JUPIT	ER.	SATURN	í. Í	URAN	us.	NEPT	UNE.
(Apogee), or at her ' this distance (Perigee), from the Earth a each Luvation.	000	Right Ascension	Decli- nation South.	Right Ascension	Decli- nation South.	Right Ascension	Decli- nation South.	Right Ascension	Decli- nation South.	Argentian ba	ecli- tion orth.	Right Ascension	Decli- nation North.	Right Ascension	Decli- nation South.
							222 21	101 0	50 051	01- 57 00	10/	11s 41mm	00 51/	22h, 26m	100 20/
NEW MOON 3D. 5H. 16M. P.M.	1	16h. 36m	230 67	18h. 7m	250 387	16h. 27m	220 6	13h. 3m	5° 27′	0h.57m 3°	13	111.41111			
TIRST QUARTER 11 8 37 P.M.	6	17 10	24 27	18 0	24 34	16 42	22 41	13 6	5 45	0 57 3	12	1 40		22 26	10 38
FULL MOON 19 5 3 A.M.	11	17 44	25 16	17 49	23 19			13 9	6 2	0 56 3	11	1 40		22 27	10 37
LAST QUARTER 25 9 24 P.M.	16	18 19	25 30	17 36	21 56	17 14	23 34	13 12	6 18	0 56 3	11	1 39		22 27	10 35
APOOEE 9 11 A.M.	21	18 54	25 6	17 24	20 32	17 30	23 51	13 15	6 33	0 56 3	13	1 39		22 27	10 33
PERIOEE 21 6 A.M.	26	119 28	24 4	17 14	19 19	17 46	24 2	13 17	6 46	0 56 3	16	1 39	9 42	22 28	10 30



NOTES ON NATURAL HISTORY.—DECEMBER.

In December, the robin redbreast and the wren are almost the only birds that are found cheerfully hopping about near dwelling-honses. The rohin, in fact, becomes more familiar at this season; and, as Thomson beautifully ex-

The redbreast, sacred to the household gods, Wisely regardful of th' embroiling sky, In joyless fields and thorny thickets leaves His shivering mates, and pays to trusted man His annual visit. Hat't afraid, he first Against the window beats; then brisk alights On the warm hearth; then, hopping o'er the floor, Eyes all the smiling family askance, And pecks, and starts, and wonders where he is: Ti'l, more familiar grown, the table crums Attract his slender beak.

In Italy, Mr. Waterton informs us, the robin redhreast is used as food; and he says, in the hird-market near the Rotunda, at Rome, he has counted more than fifty rohin redbreasts lying dead on one stall.

fifty rohin redbreasts lying dead on one stall.

The fearful cry of the owl sounds more alarming in winter than at any other season; and the form of the harn owl filting through the leafless trees has a more striking and ghost-like appearance in winter than it ever can have in summer. "The characters and appearance of owls," says Mr. Yarrell, "are so singular and so peculiar, that, once having seen them, they are not readily forgotten. They have hut little external beauty of form. The head is large, the expression grotesque, and the hody hulky in appearance, though the plumage is soft and downy. Unlike the falcons, which hunt for their food by day, the owls seek their prey during the twilight of morning and evening, and probably during the gracest part of the night if the syste of the morn of the atmosphere affords. seek their prey during the twinght of morning and evening, and pronably during the greater part of the night, if the state of the moon or the atmosphere affords sufficient light for the purpose. From this habit of flying by night, the singular appearance of the bird produced by the arrangement of the feathers of the face, forming a broad circular disk, a peculiar hollow tone of voice, unlike that of any other bird, and the additional circumstance of most of the species selecting tryother bird, and the additional circumstance of most of the species selecting ivycovered ruins of sacred edifices as places of resort, from the solitude and
protection the character of such remains afford, owls have been considered by
the superstitious as birds of darkness and ill-omen, and by some even as
messengers of death."

The little Italian owl, or civetta, is much prized,
Mr. Waterton tells ns, "by the gardeners of Italy,
for its uncommon ability in destroying insects,
snails, slugs, reptiles, and mice. There is scarcely
an out-house in the gardens and vineyards of that

snails, stugs, reptiles, and moce. There is scarcely an out-house in the gardens and vineyards of that country which is not tenanted by the civetta. It is often hrought up tame from the nest; and in the month of Septemher is sold for a dollar to sportsmen, who take it with them in their excursions through the country, to look for larks and other small hirds. Perched on the top of a pole, it attracts their notice and draws them within the fatal range of gunshot by its most singular gestures; for, standing bolt upright, it enrisies incessantly, with its head somewhat inclined forwards, whilst it keepa its eyes fixed on the approaching object. This odd movement is peculiar to the civetta alone, and hy it the birds of the neighbourhood are decoyed to their destruction. Hence its value to theranging sportsman. Often and anon as the inhabitants of Rome pass through the hird-market at the Pantheon, they stop and look, and laugh at this pretty little captive owl, whilst it is performing its ridiculous gesticulations." The scops-eared owl is very nearly allied to this species, and, though it is most lons gesticulations." The scops-eared owl is very nearly allied to this species, and, though it is most

nearly allied to this species, and, though it is most abundant in Italy, it is occasionally to be seen in Great Britain; and on the shores and islands of the Mediterranean it is very abundant; and Mr. Spence, the well-known entomologist, has thus recorded its summer habits in the Magazine of Natural History:—"This owl, which in summer is very common in Italy, is remarkable for the constancy and regularity with which it utters its pentiliar note or cry. It does not merely 'to the moon complain' occasionally, but keeps repeating its plaintive and monotonous cry of 'Keu, kew' (whence its Floreutine name of Chiu, pronounced almost exactly like the English letter Q), in the regular intervals of about two seconds, the livelong night; and till one is used to it nothing can well he more wearisome. Towards the end of April, 1830, one of these owls established itself in the large Jardin Anglais, helind the house where we resided at Florence; and, until our departure for Switzerland, in the beginning of June, I recollect but one or two instances in which it was not constanty to he heard, as if in spite to the nightugales which abounded there, from nightfall to midnight (and probably much later), whenever I chanced to be in the

stanty to be heard, as it in spite 10 the nightingaies which abounded there, from nightfall to middhight (and probably much later), whenever I chanced to be in the back part of the house, or took our friends to listen to it, and always with precisely the same unwearied cry, and the intervals between each as regular as the ticking of a pen dulum."

At this gloomy season of the year every flower is valuable; hut the Christmas rose, which generally appears in flower about this time, is valuable not only from the absence of other flowers, hut for its own intrinsic merits. It is a large, handsome, cup-shaped flower, looking like a single rose, and being either white or a very pale pink; and though, in the open air, the delicate texture of its flowers is often injured by the frost, or melting snow which so frequently covers the ground at the dreary season when it appears, yet, when grown in a sheltered place, or when the weather chances to be mild, it is as ornamental as any of the flowers of aummers. It is a species of belle-At this gloomy season of the year every flower is valuas any of the flowers of aummer. It is a species of helle-bore, and its hotanic name is Helleborus niger (or the black bore, and its hotanic name is Helleborus niger (or the black hellehore), from the hlack skin which covers its fleshy underground stem, or root, as it is commonly called, though there are attached to this fleshy substance abundance of the real or fibrous roots. The plant is used in medicine, but it is poisonous when taken to excess; and, in fact, its very name of hellebore is taken from two Greek words, signifying deadly food. There are several kinds of hellebore, but the Christmas rose is hy far the most corresponded.

The fragrant coltsfoot (Tussildgo fràgrans) is another plant which flowers about Christmas; and it is not only ornamental, but very fragrant. All the kinds of coltsfoot



CHRISTMAS ROSE.

are considered efficacious in colds and coughs; and, in fact, the Latin name

Among the few other plants in flower at this season may he mentioned the enrious variety of hawthorn called the Glastonhury thorn, which is said always to

Among the few other plants in flower at this season may he mentioned the curious variety of hawthorn called the Glastonhury thorn, which is said always to flower exactly on Christmas Day. Of course, this is not the case; but it is a fact that the plant blossoms again in December, though it has ripe fruit on it from its previous blossoming at the ordinary season in May. The legend is, that, in the ancient times, Glastonbury was situated on an island called Avalon; the waters that surrounded it, and which consisted of a lake communicating with the sea, being now dried up, though where the lake formerly was is still marshy ground. Joseph of Arimatbea is said to have come to Britain with his disciples, to preach the Gospel, in the year 36; and ho having landed on the isle of Avalon, struck his sick into the ground, which immediately took root, hudded, and blossomed, being on the Christmas Day; and, since that time, the plant has always hudded and blossomed on Christmas Day; The Glastonbury thorns, which are now common in every part of England, are all taken from an original stock, still existing within the rnins of Glastonbury Abbey; but it is said that there is another in the ueighbourhood, which is much older than the one growing in the ruins, and which hlossoms about the same time.

In the New Forest there is an oak which sends forth its leaf-huds ahout the middle of December, and which, on Christmas Day, has frequently several leaves expauded. They do not, however, long remain, as the country people generally assemble on the Christmas morning and strip the tree of every leaf they can find. The tree is callod the Cadenham Oak, and it is said hy some to he the identical tree against which the arrow of Tyrrel glanced when it killed William Rifus; as, in the account given by Camden of the accident, he expressly neutions the early vegetation of the tree which was the occasion of the accident. According to other authors, however, it appears that there is another tree in the Forest which vegetates at the same time as

almost all the insects which live through the winter are in a torpid state at this season, and most of the moths and hutterflies are dead, having left their eggs secured in various ways, so that they may be enabled to bear the cold of winter, and he ready to he hatched in the spring. Thus, the eggs of the lackey-moth, to use the words of Messrs. Kirby and Spence, "are packed as closely as possible to each other, and the interstices are filled up with a tenacious gum, which soon hardens the whole into a solid mass, almost capable of resisting a penkuife." The female of the gipsy-moth also crowds her eggs together as closely as she possibly can, and when he has formed them into an oval mass, she covers them with a warm coating of hairs plucked from her own hody, which sho makes so thick, and fixes on so firmly, as to render the covering equally impervious to cold and wet. Even the Aphia coats her eggs over so as to make them appear perfectly hlack; and the beetles generally buty theirs to a considerable depth in the ground, instinct teaching them that the frost, which destroys everything exposed to the atmospheric air, never penetrates more than a few inches into the ground. In some few cases moths hybernate, like heetles, in a perfect state, and the December Moth is found occasionally sticking, apparently lifeless, against the trunks of trees. The Herald Moth is also occasionally seen at this season, and it is so torpid that it will suffer itself to be taken in the hand without making any effort to escape. Even when a inager is put near it, it only moves its head and antenna a little, without attempting to fly away. A moth of this species was observed by the Rev. Leonard Jenyus to remain in a torpid state upwards of seven month. The most remarkable insect, however, seen at this season, is the one known in the south of Scotland by the name of the Devil's Butterfly; and which, in various parts of England, is called the Witch's Butterfly; and which, in various parts of England, is called the Witch's Butterfly; and Almost all the insects which live through the winter are in a torpid state at

with fine branched spines. The pupa of this caterpillar is very curious, looking like a lady with an old-fashioned hood, and heing always suspended by a thread. There appear to he at least two broods of this insect every year—one heing hatched in June, and the other in the latter end of October. other in the latter end of October. It is very common in the south of

Europe, and particularly in Italy. The common house-fly is subject to rather a singular disease at this season; and flies are often found



SMALL TORTOISE-SHELL BUTTERFLY.

sticking to the leaves of ivy and other evergreens—the flies, though they appear to be alive, heing quite dead, and other evergreens—the flies, though they appear to be alive, heing quite dead, and adhering to the leaf hy a kind of cottony mildow, which is, in tact, a peculiar sort of fungus. The Rev. L. Jenyns, mentioning this singular fact, adds, that it seems owing to the chill and dampness of an autumnal night coming on suddenly, as at this season the temperature of the air at sunset, especially if the sky be clear, fails rapidly. The lev. M. J. Berkeley mentions that this fungus, no doubt, attacks the fly white living, though it is not fully developed til after death. The reason why it prevails in autumn, he adds, is that the dampness of the air at that season is favourable to the growth of all kinds of mould, and that the suddenness with which flies appear to he attacked with it is merely the rapid growth of the fungus, from the state of the atmosphere. Gold fish are flower. mat the studentness with which mes appear to be attacked with it is milety like rapid growth of the fungus, from the state of the atmosphere. Gold fish are frequently attacked at the heginning of winter with a white downy matter, similar to that found on flies, and which generally proves equally fatal. The nests of wasps may be sought for at this season and destroyed, as wasps are frequently found in them in a torpid state from the cold, and nearly every wasp that survives the winter will form a nest the following summer; the economy of wasps believed the state of the st heing different from that of bees, and each old female wasp forming a new colony of her own.

A TABLE, SHOWING THE TIMES OF SUN-RISING AND SUN-SETTING, AND THE LENGTH OF THE DAY, AT ALL PLACES IN ENGLAND, SCOTLAND, IRELAND, AND WALES.

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	OF SUN-RISING AND SUN-SETTING, AND THE LENGTH OF THE DAY, AT ALL PLACES IN ENGLAND.	TOM TOM
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APPEARANCE OF THE HEAVENS

ON JANUARY 1, 1850, AT 8H. P.M., AS SEEN NEAR LONDON.

EAST OF THE MERINIAN.

N.E. hy N.—The Great Bear, 35° high; the Pointers ahont 32° high.
N.E.—Leo Minor, 15° high; above which are the fore-legs of the Great Bear.
N.E. by E.—Lynx, 45° high.
R.—The Crah, 20° high; Pollux, 34°; Castor, 38°; Beta Aurigæ, 62°; and Ca-

pella, 67° high.

E. hy S.—Procyon, 17° high.
S.E. by E.—Sirius, 6° high; Alpha Orionis, 33° high; Mars, 42°; and Beta Tauri, 44° high.

S.E.—The three stars in the helt of Orion, 27°; Gamma Orionis, 36° high; above which is the Bull.

S.E. hy S.-Rigel, 24° high; Aldebaran, 50° high; above which, the legs of

S. hy E .- The Pleiades, 61° high.

ON THE MERIDIAN.

A little above the north horizon is a part of Draco; Ursa Minor, Polarls; above which, Camelopardalus; Perseus, near the zeuith; Alpha Persei, 4° east of the meridian; and Beta Persei, 2° west; helow these, the Fly, the hinder-part of the Ram, the head of the Whale; and Alpha Ceti, 42° high.

WEST OF THE MERIDIAN.

S.S.W.—Alpha Arietis, 61° high; and Cetus, 23° high. S.W. hy S.—Hinder part of the Whale, 15° high; and Gamma Andromedæ, 15° from the zenith.

om the zenth.

S.W.—Saturn, 27° high.

S.W. hy W.—Gamma Pegasi, 40° high; and Beta Andromedæ, 63° high.

W.S.W.—Alpha Andromedæ, 53° high; and Alpha Pegasi, 32° high.

W.—Beta Pegasi, 42° high; Andromeda, 20° from the zenith.

W.—beta regast, 42° light; Andromeda, 20° from the zenth.
W. hy N.—Delphinns.
N.W. hy W.—Alpha Cygni, 33° high; and Alpha Lyræ, N.W. 10° high.
N.N.W.—Beta and Gamma Draconis, 18° high.

APPEARANCE OF THE HEAVENS ON FEBRUARY 1, 1850, AT 8 . P.M.

EAST OF THE MERIDIAN.

N.N.E.—The Northern Crown rising.
N.E. by N.—The tail, hack, and the hinder part of the Great Bear; and near the zenith the head of the Lynx; Eta of the Great Bear, 20°; and Zeta, 26° high.

Near N.E.—Delta of the Great Bear, 34°; Alpha, 44°; Gamma, 34°; and Beta,

Near N.E.—Leo Minor, 30°; and Lynx, 60° high.
E.N.E.—Leo Minor, 30°; and Lynx, 60° high.
E.—Regulus, 19° high; ahove which, Leo; and, higher up, the legs of the

ON OR NEAR THE MERIDIAN.

Starting from the N., at a little west of the meridian Beta and Gamma Draconis, 15° high; above which, the Little Bear, Polaris, Camelopardalus, Auriga in zenith; south of the renith, Tanrus; lower, and a little west, Orion; still lower, the Hare, at the heigh of 20°; near the meridian, Rigel, 30°; three stars in Orion, 31°; Gamma Orionis, 44°; Aldeharan, a little west of meridian, 54°; Mars, a little east of the meridian, 64° high; Beta Tauri, near Mars, 66° high: Canello is pear the zenith. Mars, a little east of the me Capella is near the zenith.

WEST OF THE MERIDIAN.

WEST OF THE MERINIAN.

Near S.W. by S.—Alpha Ceti, 35°; and the Pleïades, 58° high.

S.W.—Cetus, 15° high; ahove which, the Ram; higher still, the Fly; and Perseus near the zenith.

W.S.W.—Saturn, 9° high.

W. by S.—Gamma Pegasi, 22°; and Gamma Andromedæ, 58° hlgh.

W.—Alpha Andromedæ, 31°; and Beta Audromedæ, 46° high.

Near W.N.W.—Beta Pegasi, 12° high.

Near W.N.W.—Beta Pegasi, 23° high.

Near N.N.W.—Alpha Cassiopeiæ, 51°, and Beta Cassiopeiæ, 48° high.

N.W. by N.—Alpha Cygni, 16° high; and Alpha Lyree is near the horizon in the N.N.W.

APPEARANCE OF THE HEAVENS ON MARCH 1, 1850, FAT 9H. P.M.

EAST OF THE MERIDIAN.

N. by E.—Alpha Lyre rising. N.N.E.—Gamma Draconis, 15°; Beta Draconis, 18°; and the Little Bear, 45° high

45° high.
Near N.E.—The Northern Crown rising.
N.E. by E.—Boötes. 17° high; ahove which, parts of the Great Bear, Eta,
Zeta, Epsilon, Delta, and Gamma of which are 36°, 42°, 46°, 52°, and 54° high,
respectively; higher still, Beta, 61° high; and Alpha, N. of Beta, 61° high.
Near E.N.E.—Arcturus, 11°; in the east the Virgin rising; ahove which
Coma Bereuices; and higher still, Leo Mimor.
Near E.S.E.—Beta Leonis, 32° high; Jupiter, 16° high.
Near S.E.—Regulus, 41°; and Gamma Leonis, 48° high.
S.S.E.—Alpha Hydræ, 27° high.

ON THE MERIDIAN.

The body of the Unicorn, 35° high; above which is the Little Dog, a little W. of meridian is Procyon, 44° high; above which Gemini, with Pollux near the meridian, 67° high, and Castor a little more West, 70° high; between this point and the zenith is the Lynx; N. of the zenith is the head of the Great Bear; and near the N. horizon is the body of the Swan.

WEST OF THE MERIDIAN.

Near S.S.W.—Sirius, 20° high; a little more W. Beta Canis Majoris, 18°, S.W. nearly.—Rigel, 21°; three stars in Orion, 30°; Gamma Orionis, 35°; Alpha Ortonis, 39° high; and Mars, 57° high.
W.S.W.—Aldebaran, 30°; and Beta Aurigæ, 69° high.
W. hy S.—Alpha Ceti, 13°; the Pleïades, 36°; and Capella, 64° high.
W. by N.—Alpha Arletis, 19°, and Beta Persei, 42° high.
N.W. hy N.—Alpha Andromedæ, 6°; Beta Andromedæ, 19°; Gamma Andromedæ, 32°; Gamma Pegasi, 48°; and Beta Cassiopeiæ, 30° high.

APPEARANCE OF THE HEAVENS ON APRIL 1, 1850, AT 9H. P.M.

EAST OF THE MERIDIAN.

EAST OF THE MERIDIAN.

N. by E.—Alpha Cygni, 5°.

N.E. hy N.—The Harp rising; Alpha Lyræ, 8° high; above which, a little to the left. is Gamma Draconis, 24°, and Beta Draconis, 26°; higher up, the Little Bear.

N.E.—Alpha Draconis, 55° high.

N.E. hy E.—Zeta, Epsilon, Delta, Gamma, and Beta of the Great Bear, 57°, 61°, 69°, 71°, and 73° high.

Near N.E. hy E.—The Northern Crown, 25° high.

E.—Alpha Serpentis, 5°; and Arcturus, 30° high.

S.E. hy E.—Spica Virginis, 11°.

S.E.—Beta Leonis, 47° high.

S.E. by S.—Junitar, 52° high.

S.E. by S .- Jupiter, 52° high.

ON AND NEAR THE MERIDIAN.

Alpha Hydræ, 31°; Regulus, 41°; higher up, the head of the Lion, the forelegs and body of the Great Bear, with the Pointers, ahout 10° east of the meridian; and below Polaris is Cepheus.

WEST OF THE MERIDIAN.

S.W.—Sirius, 11°; Procyon, 38° high; above which, the Crah.
Near W.S.W.—Rigel, 6°; Orion's helt, 15°; a little west, Gamma Orionis, 19°;
Alpha Orionis, 25°; Gamma Geminorum, 38°; Castor, 58°; a little west, Pollux, 56°; higher up, the hody of the Lynx, and the head of the Great Bear: Mars, 47° high.

M.—Aldebaran, 19°; Beta Tauri, 36°.
W. hy N.—The Pleïades, 18°; Beta Aurigæ, 53°; and Alpha Arietis, setting.
W.N.W.—Capella, 46° high.
N.W. by W.—Beta Persel, 25° high; a little to the north, Alpha Persei, 33° high.
Near N.W.—Beta Andromodæ, 7°; Gamma Andromedæ, 18°; and N.N.W.,
25° high, Cassiopeiæ.

APPEARANCE OF THE HEAVENS ON MAY 1, 1850, AT 10n. P.M.

EAST OF THE MERIDIAN.

EAST OF THE MERRITAN.

N. by E.—Beta Cassiopeiæ, 20° high.

N.E.—Alpha Cygni, 20° high.

N.E. hy E.—Gamma Draconis, 43° high; and Beta Draconis, 47° high.

E.N.E.—Alpha Lyræ, 30° high.

E. by S.—Alpha Ophinchi, 20°; and Alpha Herculis, 25° high.

E.S.E.—The Northern Crown, 40° high.

S.E. hy E.—Alpha Serpentis, 34° high.

S.E. by S.—Beta Libræ, 22°; and Arcturus, 54° high.

S. by E.—Spica Virginis, 28° high.

ON AND NEAR THE MERIDIAN.

Cassiopeia; above which the middle star in the tail of the Bear, with Zeta 5° to the E., Delta 2° to the W., and Alpha, Beta, and Gamma of the Great Bear within 13° W. of the Meridian, and all near the zenith.

WEST OF THE MERIDIAN.

WEST OF THE MERIDIAN.

S.S.W.—Beta Leonis, 43°.

Near S.W.—Alpha Hydræ, 17°; Regulus, 40°; Gamma Leonis, 49° hlgh; and Jnpiter, 42° high.

W.—Procyon, 70° high; Mars, 29° hlgh.

W. hy N.—Gamma Geminorum, 12°; Pollux, 32°; and Castor, 32° high.

N.W.—beta Tauri, 10°.

N.W.—Capella, 23°; Beta Aurigæ, 27°; above these, and near the zenith, the Great Bear

Great Bear.
Near N.N.W.—Beta Persei, 6°; and Alpha Persel, 16° high.

APPEARANCE OF THE HEAVENS ON JUNE 1, 1850, AT 10n. P.M.

EAST OF THE MERIDIAN.

N.N.E.—Beta Casslopeiæ, 24° high. N.E. by E.—Alpha Cygni, 35° high. E.N.E.—Gamma Draconis, 60°; and Beta Draconis, 64° high.

E.N.E.—Camina Diacons, 60°; and beta Diacons, 64° ingli-E. hy N.—Alpha Lyrae, 48°. E. hy S.—Alpha Aquilæ, 15° high. Near S.E.—Alpha Ophiuchi, 40°; and Alpha Herculis, 44° high. S.S.E.—Northern Crown, 65° high.

ON OR NEAR THE MERIDIAN.

Perseus near the north horizon, Alpha Dracouis a little north of zenith, Arcturus 58° high, and 10° W. of the meridian; and Alpha Lihræ near the meridian, at the height of 24°. WEST OF THE MERIDIAN.

S.S.W.—Spica Virginis, 25° high.
S.W. by W.—Beta Leonis, 39°; and Jupiter, 28° high.
W. hy S.—Regulus, 23° high; and Gamma Leonis, 30° high.
W. hy N.—Pollux, 12° high; Castor, 13°; and Mars, 18° high.
N.W. hy N.—Beta Aurigæ, 14° high; Venus setting.
N.N.W.—Capella, 12° high; ahove which is the Great Bear.

APPEARANCE OF THE HEAVENS ON JULY 1, 1850, AT 10H. P.M.

EAST OF THE MERIDIAN.

N. by E.-Alpha Persei, 12° high.

N. by E.—Alpha Persei, 12° high.
N.E. by N.—Gamma Andromedæ, 10°; and Beta Cassiopeiæ, 33° high.
N.E. by E.—Alpha Andromedæ, 10° high.
E.N.E.—Beta Pegasi, 19° high.
E.N.E.—Beta Pegasi, 19° high.
E. hy N.—Alpha Pegasi, 9°; and Alpha Cygni, 51° high.
E. and near the Zenith.—Gamma and Beta Draconis.
S.E. hy E.—Alpha Aquilæ, 34°; and Alpha Lyræ, 69° high.
S. hy E.—Alpha Ophiuchi, 41° high; and Alpha Herculls, 49° high.

ON OR NEAR THE MERIDIAN.

Capella near the horizon, and due N.; and Antares 4° W. of the meridian, and 12° above the S. horizon.

WEST OF THE MERIDIAN.

S. hy W.—Beta Scorpii, 18°.

S.W. hy S.—Alpha Libræ, 18°; Beta Libræ, 26°; and Alpha Serpentis, 45° high; the Northern Crown, 65° high.

S.W. by W.—Spica Virginis, 14°; and Arcturus, 46° high.

W.—Beta Leonis, 22° high; Jupiter, 10° high.

W. by N.—Regulus and Mars nearly setting.

N.W.—Great Bear, 48° high; and Castor is setting near W. by N.

N.W. by N .- Venus setting.

APPEARANCE OF THE HEAVENS ON AUGUST 1, 1850, AT 10H. P.M.

EAST OF THE MERIDIAN

EAST OF THE MERIDIAN.

Near N. by E.—Beta Aurizea, 7°; and Capella, 9° high.

Near N.E. by N.—Alpha Persei, 20°; and Beta Persei, 13° high.

Near N.E.—Gamma Andromedæ, 21°; and Beta Cassiopeiæ, 45° high.

N.E. by E.—Alpha Arietis rising.

E. N.E.—Beta Andromedæ, 26° high.

E. by N.—Alpha Andromedæ, 26° high; Saturn will rise within a few minutes.

E.—Gamma Pegasi, 16°; Beta Pegasi, 36°; and Alpha Cygni, 70° high.

E. by S.—Alpha Pegasi, 26° high.

S.S.E.—Alpha Aquilæ, 45° high.

ON OR NEAR THE MERIDIAN.

The Lynx, near the north horizon; Draco, near the zenith; Lyra south of the zenith; Alpha Lyra being on the meridian; near the zenith, and 5° W. of the meridian, is Gamma Draconis; and 9° W. is Beta Draconis.

WEST OF THE MERIDIAN.

S.S.W.—Alpha Ophiuchi, 39°; Alpha Heralis, 40° high. S.W. by S.—Antares, 7°; a little to the right is Beta Scorpil, 10° high. S.W. by W.—Alpha Libræ, 6°; and Beta Libræ, 16° high. W. by S.—Arcturus, 32° high; the Northern Crown, 43° high. N.W.—The stars in the tail of the Great Bear, 40° high. N.W. by N.—The Pointers, 35° high.

APPEARANCE OF THE HEAVENS ON SEPTEMBER 1, 1850, AT 9H. P.M.

EAST OF THE MERIDIAN.

N.N.E.—Beta Auriga, 9° high; to the right, Capella, 12° high. N.E.—Alpha Persei, 26° high. E.N.E.—Alpha Arietis, 14°; Beta Andromedæ, 32° high. E. by N.—Beta Persei, 20°; Beta Cassiopeiæ, 53° high. E.—Saturn, 5° high.

E. by S.-Gamma Pegasi, 26°; Beta Pegasi, 36°; and Alpha Pegasi, 37° high.

ON OR NEAR THE MERIDIAN.

Body of the Lynx, Polaris, a little S. of the zenith; and 10° E. of the meridian, Alpha Cygni; 13° W. of the meridian, Alpha Lyræ; Alpha Aquilæ, on the meridian, 47° above the southern horizon.

WEST OF THE MERIDIAN.

S.W.—Alpha Herculis, 42°; Alpha Ophiuchi, 43°; and Alpha Lyræ, 71° high. W.S.W.—Beta Libræ, 7°; and Alpha Serpentis, 23° high. W.—The Northern Crown, 42°; Beta Draconis, 72°; aud Gamma Draconis, 74°

W. by N.—Arcturus, 20° high.
W. by N.—The stars in the tail of the Great Bear, 33° high.
N.N.W.—The Pointers, 30° high.

APPEARANCE OF THE HEAVENS ON OCTOBER 1, 1350, AT 9H. P.M.

EAST OF THE MERIDIAN.

EAST OF THE MERIDIAN.

N.E. by N.—Castor rising.

Near N.E.—Capella, 26°; and Beta Aurigæ, 20° high.

Between E. by N. and E.N.E.—Aldebaran, 7°; Beta Persei, 38°; and Alpha Cassiopeiæ, 64° high.

Nsar E. by N.—The Pleïades, 18° high; and Gamma Andromedæ, 46° high.

E. by S.—Alpha Ceti, 10°; Alpha Arietis, 33°; Beta Andromedæ, 51° high.

E. S.E.—Alpha Andromedæ, 55° high

S.E. by E.—Saturn, 25° high; and Gamma Pegasi, 43° high form a square, S.E. by S.—Beta Pegasi, 62° high.

S.S.E.—Alpha Pegasi, 51° high:

ON OR NEAR THE MERIDIAN.

The head and fore part of the Great Bear, on the north meridian. A little west of the meridian are the Pointers, and more west are Gamma and Delta of the Great Bear; and still more west, the three stars in the tail. Above Polaris is Cepheus; east of which is Cassiopela; a little south of the zenith, and 15° west of the meridian, is the body of the Swan, Alpha Cygni being about 10° from the meridian: Aquarius is situated a little south of the Equator.

WEST OF THE MERIDIAN.

S.S.W.—The four stars forming the rhomboidal figure, called Delphinus, 50° high. S.W. by S.—Alpha Aquilæ, 42° high. W. by N.—Alpha Lyre, 56°; and Alpha Cygni, 77° high. W.N.W.—The Northern Crown, 15° high; Beta and Gamma Draconis, 53° high. N.W. by W.—Arcturus, setting. N.N.W.—The täil of the Bear, 20° high.

APPEARANCE OF THE HEAVENS ON NOVEMBER 1, 1850, AT 8H. P.M.

EAST OF THE MERIDIAN.

EAST OF THE MERIDIAN.

N. by E.—The head of the Great Bear, 20° hlgh.

N. E. by N.—Castor, 5° hlgh.

N. E. by E.—Beta Aurigæ, 25°; Capella, 32° hlgh.

E.N. E.—Alpha Persci, 47° hligh.

E.—Alebaran, 15°; Pletades, 20°; Gamma Andromedæ, 58° hlgh.

E.S. E.—Alpha Ceti, 34°; Alpha Arietis, 45°; Beta Andromedæ, 61° hlgh.

S. E.—Saturn, 34°; Alpha Andromedæ 65°, and Gamma Pegasi 50° hlgh, being the eastern pair of stars forming the square of Pegasus.

ON OR NEAR THE MERIDIAN.

The Pointers nearly on the meridian below Polaris, with Gamma and Delta of the Great Bear about 10° west of the meridian; Cepheus is situated between Polaris and the zenith. Within a few degrees east of the meridian is Beta Pegasi, 64° high; both Alpha Pegasi and Fomalhaut arenear the meridian—the former is 52°, and the latter is 8° high.

WEST OF THE MERIDIAN.

S.W.—Delphinus, 45° high.
S.W. by W.—Alpha Aquilæ, 33° high.
W.—Alpha Cygni, 67°; Alpha Ophiuchi, 16° high.
W. by N.—Alpha Lyræ, 41°; and Alpha Herenis, 14° high.
N.W. by N.—The Northern Crown, 14°; and Gamma and Beta Draconis, 14°

N.N.W.—The tail of the Great Bear, 20° high.

APPEARANCE OF THE HEAVENS ON DECEMBER 1, 1850, AT 8H, P.M.

EAST OF THE MERIDIAN.

EAST OF THE MERIDIAN.

N. by E.—Gamma and Delta of the Great Bear, 16° and 19° high respectively.

N.N.E.—Beta and Alpha of the Great Bear, 20° and 25° high respectively.

N.E.—The Lynx, 25°; and higher up, the legs of Camelopardalns.

N.E. by E.—Pollux, 12°; and Castor, 17° high.

E.N.E.—Beta Auriga, 40°; Capella, 46°; and higher up, Perseus.

E.—Alpha Orionis, 13° high; and Medusa's Head, 62° high.

E. by S.—The three Stars in a straight line, and at equal distances from each other, forming the belt of Orion, 10° high; Aldebaran, 32° high.

E.S.E.—The Pleiades, 46° high; Gamma Andromedae, 73° high.

S.E.—Alpha Ceti, 37°; and Alpha Arietis, 57° high.

ON OR NEAR THE MERIDIAN.

Under the Pole Star is the tail of the Great Bear; above Polaris is Cassiopeia; a little south of the zenith is Andromeda, Beta Andromedæ being almost 5° east of the meridian. Saturn is near the meridian, being 5° east of it, at the altitude of 42°; and near the south horizon is the tail of Cetus.

WEST OF THE MERIDIAN.

S. by W.—Gamma Pegasi, 52°; and Aipha Andromedæ, 65° high.
S.W. by S.—Alpha Pegasi, 49° high.
S.W.—Beta Pegasi, 60° high; and near this point, at 17° high, is Alpha Aquilæ.
W. by S.—Delphinus, 30° high; and near this point, at 17° high, is Alpha Aquilæ.
W. by N.—Alpha Cygni, 51° high.
N.W.—Beta Draconis, 31° high; Gamma Draconis, 33° high.
N.W.—The Northern Crown, setting.

N.W. by N.—The Northern Crown, setting.

The names and relative situations of the principal constellations and stars are given in the preceding description of the heavens at a convenient time on the first day of every month, and very great facilities are thus given to the young astronomer to learn them.

The altitude of the constellation, star, or planet is to be understood as measured in angular measure, upon a vertical circle, above that point in the horizon which an arc of a circle drawn from the zenith (the point immediately overhead), and passing through or near the objects named, touches the horizon. The measure of this arc, or the angular distance from the zenith to the horizon is 90°; therefore, as all the altitudes are expressed in angular measure, that is, in degrees, whose symbol is °, it will be readily seen that if an object be mentioned as being 10° high, it is above the horizon by one-ninth part of the whole distance from the horizon to the zenith; if 30°, it would be one-third part; if 45°, it would be situated midway between the horizon and zenith.

For any day in the month the same description will apply for the stars, and for the planets nearly; only it will correspond to a time earlier each day by 3 minutes and 56 seconds (4 minutes nearly). Thus, in every month, the description will be the same as on the lst day of that month.

Earlier than

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							me						the Ti	
							1st.	1					on the	
		_				м.							н. м.	
n th	ie 2nd	day, a	t	• •	0	3	56	On the	17th	day,	at	••	1 2	56
-	3rd				0	7	52		18th				1 6	52
	4th				0	11	48		19th				1 10	48
	5th	••			0	15	44		20th		••	••	1 14	44
	6th					19	40		21st	* 2		•••	1 18	
			•••	• • •		23	36							36
	7th	••	• •	• • •					22nd	• •	• •	••		
	8th				0	27	32	ł .	23rd		• •		1 26	32
	9th				0	3 I	28	1	24th				1 30	28
	10th				0	35	24		25th				1 34	24
	11th	••	• •		0	39	20		26th				1 38	20
	12th					43	16		27th				1 42	
	13th					47	12		28th				1 46	
		• •	• •	• •						• •	• •	• •		
	14th	• •			0	51	8		29th			• •	1 50	8
	15th		••		0 .	55	4		30th				1 54	4
	16th				0.	59	0		31st				1 55	0

Thus, on January 16th, at 7h. 1m. P.M., the stars will occupy the same position in the heavens as they will do on January 1st, at 8h. P.M.

The description of the heavens, so far as the stars and constellations are detailed,

will be the same nearly, at the same times, on the same days for many years.

TIMES OF THE POLE STAR (POLARIS) BEING ON THE MERIDIAN, OR DUE NORTH, DURING THE YEAR 1850.

THE Pole Star (that which is usually so called) is situated at the angular distance of 1% from the Pole, and describes a circle at this distance around this point or pole. If we suppose a star there placed, it would appear stationary. The Pole Star not being so placed, it is due north only at such times as in its revolution it is on the meridian, which circumstance takes place twice every day—once when the star is above the pole, and once when it is below the pole. The following are the times, on the 1st day of every month during the year 1850, that the Pole Star is so situated:—

			M					M.				
	l a	t 6	23	12	A.M.	below the Pole, and at					above th	he Pole.
	1 ,		20			,,		18		,,	,,	
March						,,		28		,,	**	
April					"	,,	0	26	29	"	,,	
May	1 ,,	10	28	36	22	above the Pole, and at	10	26	38	"	below th	he Pole.
June			27	1	"	,,		25		,,	,,	
July			29		,,	**		27		,,	91	,
Aug.					,,	**		26		"	91	,
Sept.	1 ,,		26		,,	"		24		,,	91	,
	1 ,,				,,			26				
Nov.						below the Pole, and at		22		,,	above th	he Pole.
Dec.	1	. 8	26	35			- 8	24	37			

From those times those of the meridian passage of the star can be easily calculated for any other day in every month.

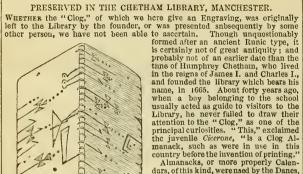
DISCOVERY OF ANOTHER SMALL PLANET.

ON April 12, 1849, Signor de Gasparis, of the Observatory of Naples, whilst comparing Steinheil's Star Map for hour XII with the heavens, discovered a Planet: its appearance at this time was that of a small star of the 9th or 10th magnitude.

M. de Gasparis referred the naming of his new Planet to M. Capocci, who has called it Hygeia. (See the monthly notices of the Royal Astronomical Society, Nos. 7 and 8 of the 9th volume, for Ephemerides and Elements.)

CLOG ALMANACK

PRESERVED IN THE CHETHAM LIBRARY, MANCHESTER.



Almanacks, or more property Calendars, of this kind, were nosed by the Danes, Norwegians, and other people of northeru race, at a very early period; and a full account of their various kinds and different names—Rim-stocks, Rune-stocks, Primstaves, Scipiones Runici, and Baculi Annales—are to be found in the "FASTI DANICI" of Olaus Wormius, printed at Copenhagen, 1643. One of those Calendars, in the form of a walking-stick, was exhibited by Sampson Hodgkinson, ESq., at the meeting of the Archæological Institute, at Lincoln, in 1848; and an engraving of it is given in the LLUSTRATER LONDON ALMANACK for 1849.

Verstegan, in his "Restitution of Decayed Intelligence in Antiquities," 1605, thus speaks of those calendars in his third chapter, "Of the Ancient Manner of Living of our Saxon Ancestors:"—"They used to engrave upon certaine

of Living of our Saxon Ancestors: "—
"They used to engrave upon certaine
squared sticks, about a foot in length,
or shorter or longer as they pleased, the
courses of the moones of the whole yeare, whereby they could always certainly tell when the new moones, ful moones, and when the new moones, fur moones, and changes should happen, as also their festial days; and such a carved stick they called an Al-mon-aght—that is to say, Al-moon-heed: to wit, the regard or observation of all the moones; and herehence is deryved the name of Almanack."

hence is deryved the name of Almanack."

That we may not he supposed to concurr in this derivation of Almanack, we merely remark, that "our Saxon ancestors" had no such name for their calendars as "Al-mon-aght;" and that Verstegan's etymology may, with hetter reason, be termed "All-moon-shine."

Dr. Rohert Plot, in his "Natural History of Staffordshire;" printed at Oxford, 1656 eyes a full account of Clore Almanackers.

tory of Staffordshire," printed at Oxford, 1686, gives a full account of Clog Almanacks of the kind représented in our Engraving; and speaks of them as being still in use "among the meaner sort of people" in that county. He, however, says that it is "a sort of antiquity so little known, that it hath scarce been heard of in the southern parts of England, and understood now but by few of the gentry in the northern." With respect to the term "Clog," he thus runs his head against it, while pretending that it was something difficult to be found: it was something difficult to be found:—
"As to the divers names of them, they "As to the divers names of them, they are here called Cloggs, for what reason I could not learn, nor, Indeed, imagine, unless from the English logg (a term we usually give only piece of wood), or from the likeness of some of the greater sorts of them to the cloggs wherewith we usually restrain the wild, extravagant, mischievous motions of some of our dogs." It staffordshire, in his time, some few were of brass; but most of wood, chiefly box: others were of fir and of oak, though not so frequent. Those of larger size, such as are represented in our Engraving, were commonly hung at the end of the mantel-tree, by the chimney-nook; others of smaller size were carried in the pocket. Each of the four faces contained a

of smaller size were carried in the pocket.
Each of the four faces contained a
period of three months, commencing with
the lat of Jannary. The days were represented by the notches on the edge,
every seventh notch heing somewhat
wider than the others; and the first duy
of each month was distinguished by a
longer stroke. In those clogs there was
longer stroke. In those clogs there was
no indication of the Dominical Letter.
The Golden Number, when nnder five, was represented by so many points. The
number five was signified by a line with an angular crook at the top; and the
numbers between five and ten, by the addition of points or dots. The sign of
ten was a cross; and the intermediate numbers to fourteen were signified by

the addition of dots. Fifteen was represented by a cross with a crook at the top; the intermediate numbers to eighteen being represented by the addition of dots. Nineteen, the highest number in the cycle, was represented by a double

cross,

The principal festivals were symbolically represented. For instance—the Epiphany, 6th January, by a star; Valentine's Day, 14th February, a true-lovers' knot; the Purification, Annunciation, Assumption, and other festivals of the Virgin, by a Heart; St. David, 1st March, a Harp; St. Barnahas, 11th Jnne, a Rake—Haymaking; St. Peter, 29th June, Keys; St. Lawrence, 16th August, a Gridiron; St. Crispin, 25th October, a pair of Shoes; St. Katherine, 25th November, a Wheel.

Our Engaving is from a drawing by Mr. Travis, of the firm of Travis and Mangnall, architects, Mauchester.

WHITSUN ALE JUG.

This representation of a Whitsun Ale Jng is taken from an excellent specimen in the interesting Museum collected by T. Crofton Croker, Esq. The jug is of white earthenware, and the word Wnir, and the date 1649, and the characteristic

flourish underneath it, are painted blue.

Whitsun Ales were festivals formerly common at Whitsuntide, in which ale Whitsun Ales were festivals formerly common at Whitsuntide, in which ale formed the predominant liquor, and hence arose the metonymy; although there has been a vast amount of pains employed to trace the name to other sources. As the money requisite for the feasts was collected by the churchwardens of the parish, Whitsun Ales have also been called Church Ales. They were kept on Sundays, notwithstanding their low and profane revelry; and entries often occur in church books of disbursements in these unholy pastimes, with which, however, are oddly mixed up charges for repairs of the church, maintaining of orphans, &c.



WHITSUN ALE JUG.

Mr. Douce has left us the following details of the Whitsun Ale:—"Two persons are chosen, previously to the meeting, to be lord and lady of the ale, who dress as suitably as they can to the characters they assume. A large empty barn, or some such building, is provided for the lord's hall, and fitted up with seats to accommodate the company. Here they assemble to dance and regale in the bost manner their circumstances and the place will afford; and each young fellow treats his girl with a ribbon or favour. The lord and lady honour the hall with their presence, attended by the steward, sword-bearer, purse-bearer, and mace-bearer, with their several badges or ensigns of office. They have likewise a train-bearer or page, and a fool or jester, drest in a party-coloured jacket, whose ribaldry and gesticulation contribute not a little to the entertainment of some part of the company. The lord's music, consisting of a pipe and tabor, is employed to conduct the dance. Some people think this custom is a commemoration of the ancient Drink-lean, a day of festivity formerly observed by the tenants and vassals of the lord of the fee within his manor; the memory of which, on account of the joility of those meetings, the people have thus preserved ever since. The glossaries inform us that this Drink-lean was a contribution of tenants towards a potation, or ale, provided to entertain the lord or his steward."

TOKENS OF THUNDER.

THE following curious notices of the tokens of thunder in each month of the

The following curlous notices of the tokens of thunder in each month of the year, are from an illuminated almanack of very early date:—

"In the monethe Januarie if ther be thundr it bitokeneth grete wyndis, hahoundaune of fruytis, and bateil to come in that yeer.

"In the monethe of Februarie, if ther be thundr it hitokeneth deeth of many men, and most of riche men by soris.

"In the monethe of Marcius, if thundir sowne, it bitokeneth grete wyndis, plente of fruytis and strues in the peple.

"In Aprilis thundir if it lowrie it shewith myry yeeryng and fructuons, but it bitokeneth deth of wickid men.

"In Mayus thundir if it come It hitoketh nodre of fruytis and hungir in that yeer.

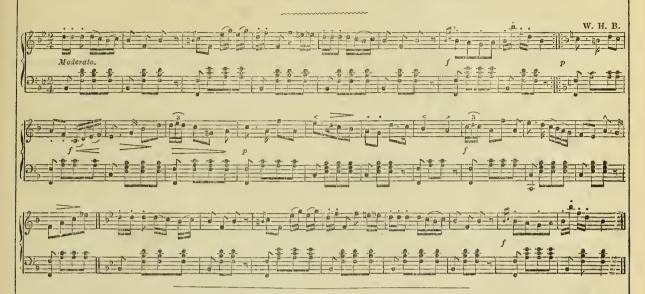
"In Juyn If it thundir it hitokeneth that wodis shul he....of....of wyndis

and ther shal he grete weondres of honns and of wolves.
"In the monethe of Juli if thundir in that yeer shal be good corn yeeryng hut the birthe of beestis shal peresche.
"August thundir it bitokeneth prosperité in the commune and mané man

shul be sub....
"In September if it thundre it hitokeneth aboundance of frnytis.
"In October if it thundir it bitokeneth a right greet wynd and geod harvest and scarsnes of frnytis.

"In the monethe of November if It thundir it hitokeneth aboundannee of fruytis and myrthe among folk.
"In December if thundir it hitokeneth aboundannee of cornes and pees and accord in the peple."

CHRISTM



THE CELEBRATED DIAMOND, KOH-I-NOOR. OR MOUNTAIN OF LIGHT.

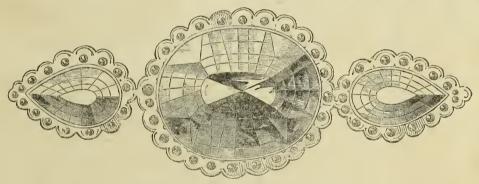
This famous diamond, which was formerly in the treasury of the Maharajah Dhuleep Singh, in the Punjaub, has been forfeited by his treachery to the British; and will, it is said, be brought to England in attestation of the success of our arms in India; which has been suggested that the mischievous superstition at tached to the possession of this unique gem might be utterly crushed by this retributive consignment.

We have taken some pains to obtain a Sketch of the Kooh-i-noor, or "Mountain

of Light," and of Runjeet's ruby; both from drawings copied from originals, by Juan Ram, to whom Runjeet Singh sent them for the purpose, at the request of Lord William Bentinck.

Lord William Bentinck.

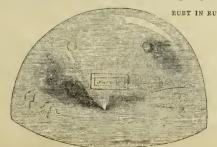
It is generally believed that this diamond belonged to the Pandus; but Tavernier says that it was dug out of the mine of Koloor, which is about four days' journcy north-west from Masulipatam, in the Nizam's territories, on the banks of the Godavuree; and that it was presented to Shah Jehan by Meer Jumla, who was at first the Commander-in-Chief of the King of Golkonda's army, and afterwards of that of Aurungzeb. The mine of Koloor was discovered not more than a hundred years before the time of Shah Jehan; when a Zumeendar found a



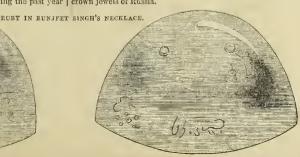
RUNJEET SINGH'S DIAMOND-" THE MOUNTAIN OF LIGHT."

diamond as he was preparing the ground for sowing melons, and this led to the discovery. The Koh-i-Noor is 319 ruties in weight, and its value was estimated, in the time of Shah Jehan, at 78,15,525 rupees Shah Jehan applied it to adorn the famous Peacock Throne, which was taken by Ahmedshah Doorance. It remained in the possession of his successors until Maharajah Runjeet Singh obliged Shah Shoojah to deliver it to him.

It is said that this diamond was taken from India by Nadir, the King of Persia, on the same date (29th of March) as that on which, during the past year



The Ruby, in the accompanying Illustration, has been sketched under similar circumstances. In the Illustration both sides are shown; the gem is worn in Runjeet's necklace. It belonged to Pandoor Rajah, was taken from him by Timour, and subsequently from Timour's descendants by Ahmeed Shah. The

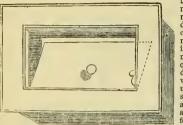


names of the six Kings of Dehi are engraved on this Ruby:—Alumzeer II.; Shah Karam II., Jehangire, Ackbar, Feroze Shah, and Ahmed Shah. Runjeet valued it at 12½ crore of rupees, or twolve millions five hundred thousand pounds

DOMESTIC INVENTIONS-SANITARY REGULATIONS, &c.

DR. ARNOTT'S VENTILATING CHIMNEY-VALVE.

P ARNOTT has snggested, as some relief for an ill-ventilated room, to take a ick out of the wall, near the ceiling, so as to open a direct communication he-



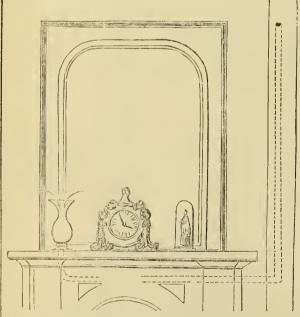
tween the room and the chimtween the room and the chimney. Any occasional temporary inconvenience of downdraught will he more than compensated by the heneficial results of this simple veutilating process. As an improvement upon these chimney openings, Dr. Arnott has devised a halanced metallic valve to prevent during the valve, to prevent, during the use of fires, the escape of smoke into the room. The advantages of these openings

and valves were soon so manifest, that the Referees appointed under the Building Act added a clause to their hill allowing the introduction of the valves, and Act added a clause to their hill allowing the introduction of the valves, and directing how they are to he placed, and they are now in very extensive use. By Dr. Arnott's recommendation, in a crowded dispensary in St. James's-parish, openings were made in the chimney-fines of the rooms near the ceilings, by removing a single hrick, and placing there a piece of wire-gauze, with a light curtain-flap hanging against the inside, to prevent the issne of smoke in gusty weather. The decided effect produced at once on the feelings of the immates was so remarkable, that there was an extensive demand for the new appliance. Most of the home sand poorhouses in the kingdom have now these chimney-valves; and most of the medical men and others who have published of late on sanitary matters, have strongly recommended them. Dr. Arnott has freely offered this and other means of ventilation to the public; but persons desiring to use them, should be careful to employ competent makers: they are to be had of frommongers. fronmongers.

PATENT AIR-SYPHON VENTILATOR.

This new mode of ventilation has heen patented by Dr. Chowne, 8, Connanghtplace West, Hyde-park, and is based on his finding that, "if a hent thee or hollow passage he fixed with the legs upwards, the legs being of unequal lengths,
whother it he in the open air or with the shorter leg communicating with a room
or other place, that the air circulates up the longer leg, and that it enters and
moves down the shorter leg; and that this action is not prevented by making
the shorter leg hot, whilst the larger leg remains cold; and no artificial heat
is necessary to the longer leg of the Air Syphon, to cause this action to take place."
Thus, by using the chimney of an ordinary room, for example (into which air has
free access), as the longer leg, and by conducting a tuhe or channel constituting
the short leg of the Air-Syphon, from any part (as near the ceiling, for instance), into the lower part of the chimney, at the suitable place, a stream
of air will proceed from the apartment down the shorter leg, and away up the
longer one. longer one.

The means of ventilation can he conducted hy light zinc tuhes passing round and through a room, and finally into the fire-place; and tubes passing form these to the upper parts of the room, the warm air would constantly descend through them to the continuous channel, and then into the larger leg of the



The Air-Syphon Ventilator admits also of heing extemporaneously and tempo-The Air-Syphon Ventilator admits also of heing extemporaneously and temporarily set up in a sick-room, so as to cause a constant removal of air from the upper portion of the apartment, where it is so apt to hang about the curtain farmiture of the chamher, and to impregnate it with the exhalations which are so often the result and generators of disease.

A peculiar fact is, that this mode of ventilation affords facilities hitherto not known for carrying away the heat and other products of combustion from gasburners, and other lamps, of which the products are offensive. Again, wherever the Air-Syphon Ventilator is in operation, it is certain, that, should an acciden-

tal escape of gas take place, it will not accumulate, but descend from the upper

The secape of gas take place, it will not accumulate, but descend from the upper part of the room, by means of the shorter leg of the syphon.

In the accompanying Illustration, the dotted lines represent the concealed pipes, shout two inches in diameter, which are brought down to the chimney opening, and concealed hehind the upper part of the jambs. In like manner, the pipe may be conducted from the bottom of an ornamental vase; into the flue; when the air would take the course shown by the arrows, and thorough ventilation he thus immediately established.

DANGER FROM STOVES, FLUES, AND PIPEA.

DANGER FROM STOVES, FLUES, AND PIPEA.

It is aeldom that dwelling-houses and such-like buildings take fire and are burnt from the common accidents against which it is practically impossible wholly to guard, such as those which occur to the lighter moveahle furniture, and to the drapery used in them; but, for the most part, the danger arises for the exposure of timher, in some form or other, in or about the structure, to the continued action of fire, or of heat, capable, sooner or later, of inducing the commission of timher; and, as the sonrce is most commonly in some atove, furnace, fine, pipe, or other tuhe for generating or for conveying heat, or for removing the products of combustion, much of the real danger to huddings from fire would be prevented by preventing that degree of proximity between timher and all such things as can lead to the comhustion of the timher. That buildings do not take fire and hurn more frequently than they do so, proves that to a great extent precautions are taken, and that dangerous proximity hetween the conduits of fire or of heat in a condition to induce combustion and the combustihe materials in the composition of hullolings is prevented. The total number of fire an the metropolitan district in the twelve years from 1833 to 1845 inclusive was 7285, of which he canses of 5515 only were known, and of these 1165 were found to have arisen from flues, and fire-places improperly constructed, from furnaces, heating and cooking apparatus, pipe-stoves, drying-stoves, lakers' ovcus, and kilns. The daily returns made by the London Fire-Engine Establishment to the insurance-offices state the supposed causes of the fires which have reached the structure of buildings, are considered to have originated in defective or overthe inshrance-omices state the supposed causes of the bres which have reached the structure of buildings, are considered to have originated in defective or overheated chimney-flues, in dead flues, or in some of the many varieties now in use of stoves and furnaces, and their metal tunes or other adjuncts and accessories for the purpose of distributing heat, and, in aome cases, for removing heated alri, as in removing the product of the combustion of gas. Further investigating science in the fire in any case, and for the most part proves that the danger had arisen, not from accident, properly so called, but from arrangements which admit of casualty, and, generally, arrangements made contrary to existing legislative provisions for preventing such casualties. A valuable huilding, used as a clubliouse, in Gresham-street, in the city of London, was seriously damaged by fire, from the placing of a series of small furnace-fires, to form what is termed a hotplate, upon the wooden and timber-formed floor of the kitchen of the club-house, the thin brick hearths of the furnaces being literally hedded upon the flooring-hoards. The Metropolitan Buildings Act provides "as to every iurnace used for the purposes of trade or manufacture, that it must not he placed upon nor within a distance of eighteen inches of any timher or wood-work."—From "A Guide to the Proper Regulation of Buildings, Streets, Drains, and Sewers," by William Hosking, Architect and C. E.

Hosking, Architect and C. E.

BELL-TRAPS.

To protect buildings from the foul air generated in, or returning hy, their own drains, the waste-ways should he double trapped—by a Bell-trap at the sink where waste water enters from the surface, and by a well-trap, or what workmen term, in plainer language, a stink-trap, ahort of the inlet to the drain; and the communication between the waste-way and the drain should have such a fall, or be so much above the hottom of the drain, that the overflow may he always from the well into the drain, and not from the drain into the well. If, however, hell-traps might be soldered down, and it were done, well-traps in addition would be unnecessary. Bell-traps are commonly left loose, hecause many substances which pass through tho grating or strainer of the trap refuse to pass the trap, either floating so that they cannot go under the lip of the hell, or sinking in the well as that they do not get over the standing end of the drain pipe; and as tea-leaves, rice, and other mattera arising from the washing of plates and dishes, the ravelled threads of housecloths, hair from brooms, and many other such like matters, find their way to the grating in the sink, or at the drain-head, and enough of them pass through and lodge in the well into which the hell is dipped, the escape becomes choked, and the trap requires to he lifted to clear the way. To solder down bell-traps is, therefore, to render the sinks useless, unless they are protected from access of such obstructions, or meana he devised of clearing them away. They may he protected hy a wire strainer over the sink, to stop everything that can tend to choke a hell-trap before it can reach the grating; or any ordinary obstruction may he cleared hy forcing all such matters as will pass the grating of a hell-trap to go under the lip of the bell, and to rise over the end, of the standpipe, and so pass away into the drain, and the requisite force may he obtained from a slight head of water by means of a very simple apparatus that may he away any ordinary obstruction from the Hap, an interfact in different and to leave the trap loose. Such an apparatus may he applied by any maid-servant, and to any sink in or ahout a house, wherever, it must be added, there is clear height enough for it to he placed pright, though it is capable of being articulated to hend in some slight degree; and it may he made telescope fashion, to give the means of increasing the pressure if need be.—Ibid.

SEA-SIDE NUISANCES.

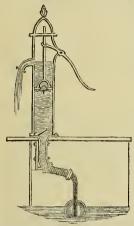
The inhahitants of, and visitors to, many of our sea-side watering-places are often exposed to annoyance, and sometimes to injury, from the discharge of the town drainage upon the much-frequented sea-beach. Cast-iron/mains are commonly used at these places to conduct the soilage from the sewers and drains a little way out from the land, and these are commonly allowed to terminate at half-tide level or thereahouts, so that they are for half their time discharging noisome and pestilential streams under the nostrils of those who betake themselves to the beach for air and exercise. But ladies, with hooks or with needlework, and nurses with their charges, are apt to resort to the propped-up and clean-looking round iron pipes for the convenience they offer as seats; and as they sit, they, and the children who play about them, inhale the poisonous gases which the soilage of the town emits, and many a family returns inland from the sea-side evered with the stench at the sea-heach rather than invigorated by the sea-hreezes. A few years ago the writer of these lines hrought his family home to London, after a six weeks' residence at a sea-side watering-place, with all his children ill, and one of them seriously so, with fever, which resulted in the measles, hronght on, he then helieved, and still considers, by the cause allnded to. There were some of the town sewer pipes running out to half-tide distance

in the most accessible part of the heach, and upon some of these his children's nurse would seat herself day hy day with the baby on her lap, and with the elder children playing about her, and with the children of other families similarly exposed to the same dauger.—*Ibid.*

PATENT FLOATING FILTERING PUMP.

This new Pump, for cleansing and filtering unwholesome water, is the invention of Mr. S. Cheavins, of Donington, in Lincolnshire. Its advantage is to procure a pure and wholesome, as well as an abundant supply—results which, it is believed, pure and wholesome, as well as an annually supply have not hitherto been combined in a pump.

The inventor states that his Floating Filtering Pump has been tested in a tidal river, and is now used in the extensive hrewery in Spalding, where it furnishes a new part of the pumple of wholesome



onstant and ahundant supply of wholesome water, entirely free from the sand and filth which the old leaden pipes, by being placed nearly to the bottom of the water, were in the constant habit of contracting, thereby preventing the engine from obtaining a sufpreventing the engine from obtaining a surficient quantity of water for the supply of the brewery; and, as a still greater proof of its utility, it may he added, that it has been frequently surrounded with the weeds and rubbish carried down the river, and yet has never, in one single instance, failed to produce a copious supply. Water is sweeter and purer at the surface than it is at the bottom, and the Floating Filter totally ejects filth of every description, such as worms, &c., and all impurities of the smallest kind. Ec., and all impurities of the smallest kind. The common pump, in consequence of the pipe descending within six or eight inches of the hottom, draws up with the pure water every pernicious sediment within its reach. On the other hand, the Floating Filter, hy taking a supply of water within four or six inches of the surface, and rising and falling with the water, at once secures it from all sediment; and should there be the Filter totally eigets it, and will supply

any light filth floating in the same, the Filter totally ejects it, and will supply hundreds of tons of pure and wholesome water daily if required.

The importance of the purity of water for drinking was never better understood than in the present age of sanitary improvement. Now, the Pateut Filter may be fixed to tanks and huts, so as to remove all apprehension of unwholesomeness in the water hy any impurity drawn up with it. The Filter can also be attached, without difficulty, to pumps of the old construction.

We have seen Mr. Cheavins's Floating Filtering Pump at work, and can fully attact its accessful operation.

attest its successful operation.

WRIGHT'S PATENT VULCAN CHIMNEY-SWEEPING MACHINES.

The inefficacy of machinery for sweeping tortuous, angular, and irregular chimneys, has long heen matter of complaint; and has, in some instances, led to the return to the employment of climbing-boys, which the application of machines was intended to supersede. The common failure of the machines hitherto used has been that they swept equally hoth ways, and left much of the soot in the chimneys

The Patent Vulcan Sweeper is capable of contracting and expanding hy the use of a cylinder or band of vulcanised india-rubher, npon which separate little brushes are so placed, that in ascending they easily press backwards, and leave the soot on the slopes, in the same manner as the common brush; whereas, on the return of the machine, the pressure on the little brushes being roversed, they stand firmly out and hold the head in the middle of the flue, sweeping all hefore it. The cylinder is fixed under a cap, and is protected from all external obstacles. The six little brushes form a round head, when all at liberty, but each one can dip down independently of the other when required to do so. There are, also, universal joints of a novel character, constructed with the vulcanised india-rubber; and, in cases where the chimmey pots are very contracted, a small pilot brush, with very stiff whalebone to scratch off the hard soot, precedes the main one, and thus averts the necessity of its being squeezed through the narrow orifice, which is always attended with more or less danger to the pot, and requires The Patent Vulcan Sweeper is capable of contracting and expanding by the use main one, and thus averts the necessity of its being squeezed through the narrow orifice, which is always attended with more or less danger to the pot, and requires so great a range of elasticity in the machine as to render it weak and inefficient in large flues. The Vulcan machines are employed in various ways, and of different sizes, to sweep stove-pipes, and every kind of chimney. They are manufactured and sold hy Mr. Every, at Quarndon, near Derby.

PRECAUTIONS AGAINST CHOLERA.

Medical authorities are agreed that the remedies proper for the premonitory symptoms of cholera are the same as those found efficacious in common diarrhoea; that the most simple remedies will suffice, if given on the first manifestation of this symptom; and that the following, which are within the reach and management of every one, may be regarded as among the most useful, namely, 20 grains of opiate confection, mixed with two tablespoonfuls of peppermini-twater, or with a little weak brandy-and-water, and repeated every three or four hours, or oftener, if the attack is severe, until the looseness of the howels stopped; or an onuce of the compound chalk mixture, with 10 or 15 grains of the aromatic confection, and from five to ten drops of laudanum, repeated in the same manner. From half a drachm to a drachm of tincture of catechu may be added to this last, if the attack is severe.

Half these quantities should he given to young persons under fifteen, and

smaller does to infants.

It is recommended to repeat these remedies night and morning, for some days after the losseness of the bowels has heen stopped. But, in all cases, it is desirable, whenever practicable, that even in this earliest stage of the disorder, recourse should be had to medical advice on the spot.

Next in importance to the immediate employment of such remedies, is attention to a property of the stage of the disorder. The stage of the disorder is the stage of the disorder of the stage of

Next in importance to the immediate employment of such remedies, is attention to proper diet and clothing. Every article of food which is known to favour a relaxed state of the bowels should, as far as possible, be avoided—such as every variety of green vegetable, whether cooked or not, as cucumber and salad. It will be important, also, to abstain from fruit of all kinds, though ripe, and even cooked, and whether dried or preserved. The most wholesome articles of vegetable diet are, well-baked, but not new, bread; rice, oatmeal, and good potatoes. Pickles should be avoided.

The diet should be solid rather than fluid; and those who have the means of

The diet should be solid rather than fluid; and those who have the means of choosing should live principally on animal food, as affording the most concentrated and invigorating diet; avoiding salted and smoked meats, pork, salted and shell-fish, cider, perry, ginger-beer, lemonade, acid liquors of all descriptious,

and ardent spirits

Great moderation, both in food and drink, is absolutely essential to safety

during the whole duration of the epidemic period. One single act of indiscretion

has, in many instances, heen followed by a speedy and fatal attack.

On account of the intimate connexion between the external skin and the internal lining membrane of the howels, warm clothing is of great importance. The wearing of flannel next the skin is therefore advisable. Recent experience The wearing of flannel next the skin is therefore advisable. Recent experience on the Continent seems to show that it was useful to wear in the day-time a flannel bandage round the body, and this may become necessary in our own country during the damp and cold weather of the approaching season.

Particular attention should be paid to keeping the feet warm and dry; changing the clothes immediately after exposure to wet; and maintaining the sitting and bed-rooms well aired, dry, and warm.

It may be necessary to add a cantion against the use of cold purgative medicines such as eatle are retinally Clauber settle proof seatle and Seidlitz medicines where seatles and Seidlitz medicines where seatles and Seidlitz medicines where seatles and Seidlitz medicines where seatles and Seidlitz medicines where seatles are seatles and Seidlitz medicines where seatles and Seidlitz medicines where seatles are seatles and Seidlitz medicines where seatles are seatles are seatles and Seidlitz medicines where seatles are seatles are seatles and seatles are seatles and seatles are seatles and seatles are seatles and seatles are seatles and seatles are seatles and seatles are seatles and seatles are seatles and seatles are seatles and seatles are seatles and seatles are seatles and seatles are seatles and seatles are seatles and seatles are seatles and seatles are seatles and seatles are seatles are seatles and seatles are seatles and seatles are

cines, such as saits, particularly Glauber saits, Epsom saits, and Seidlitz powders, which, taken in any quantity, in such a season, are daugerous. Drastic purgatives of all kinds should be avoided, such as senna, colocynth, and aloes, except under special medical direction.

If, notwithstanding these precautionary measures, a person is seized suddenly with cold, giddiness, nausea, vomiting, and cramps, under circumstances in which instant medical assistance cannot be procured, the concurrent testimony of the most experienced medical authority shows that the proper course is to most experienced medical authority shows that the proper course is to get as soon as possible into a warm hed; to apply warmth hy means of heated flannel, or hottles filled with hot water, or bags of heated camomile flowers, sand, bran, or salt, to the feet and along the spine; to have the extremities diligently rubbed; to apply a large positive of mustard and vinegar over the region of the stomach, keeping it on fifteen or twenty minutes; and to take every half-hour a tea-spoonful of sal volatile in a little hot water, or a dessert-spoonful of brandy in a little hot water, or a wine-glass of hot wine whey, made by pouring a wine-glass of sherry into a tumbler of hot milk: in a word, to do everything practicable to procure a warm, general perspiration, until the arrival of the medical attendant, whose immediate care, under such circumstances, is indispensable.

It has not heen deemed necessary or proper to give instructions for the treatment of the advanced stage, from the confident expectation that the proposed arrangements will supply medical attendance to all cases that may reach that condition, by which means the specific symptoms of each individual case will re-

ceive their appropriate treatment.

Whatever is preventive of cholera is equally preventive of typhus, and of every other epidemic and constantly recurring disease; and the attention of all classes is earnestly called to the striking and consoling fact, that, formidable as this malady is in its intense form and developed stage, there is no disease against which it is in our power to take such effectual precaution, both as collective communities and private individuals, by vigilant attention to it in its first or premonitory stage, and by the removal of those agencies which are known to promote the spread of all epidemic diseases.—Abridged from the Report of the General Board of Health, to July, 1849.

DISINFECTING PROCESS.

In all times of epidemic, it is desirable that householders should he warned of the necessity of looking to the state of the sinks, drains, cesspools, water-closets, &c., and that, as a means of prevention, those receptacles should be cleaused by pouring down them a solution of chloride of lime, and that this should be done simultaneously throughout the neighbourhood, in order to produce an effect on the public sweets this mode of nurfiting heigh global control of the produce an effect on the public sweets. should be done simultaneously throughout the neighbourhood, in order to produce an effect on the public sewers; this mode of purifying heing adopted at one time; thus, in 1849, it was publicly recommended, hetween the hours of nine and ten ou each Saturday morning. This plan was carried out at Tottennine and ten ou each Saturday morning. This plan was carried out at Totten-ham for several weeks, and here no case of cholera occurred, nor were the cases of diarrhea more frequent or severe than usual at that season of the year. Chlo-ride of lime may he had of any druggist. Two ounces is sufficient to be stirred into a pail-full of water, and costs only one penny.

ORIGIN OF THE " NILLS OF MORTALITY."

The Bills of Mortality were commenced in the reign of Queen Elizabeth, and The Bills of Mortality were commenced in the reign of Queen Elizabeth, and ever since the year 1603 have heen published by authority in London. In this respect the English metropolis stands alone; no weekly tables of the causes of the death of every inhabitant are published in the capital of any other European state. Various motives for the measure have been assigned; but the fact of continuous publication from a period anterior to the appearance of newspapers and gazettes, is remarkable and characteristic. It may be fairly referred to the natural inclination of the English people, when they are in trouble, to know the truth, and to see in figures the precise extent of their losses, although at time truth, and to see in figures the precise extent of their losses, although at times the sight might well make the courage of the bravest quail. On the Continent, "precautions" were used in publishing the mortality of cholera in 1849; and the deaths from all causes were not made known.

the deaths from all causes were not made known.

The parish-clerks of Loudon, in the seventeenth century, when the plague was at its height, counted the deaths and reported the supposed causes; and the clitizens, when the death-cart traversed the streets, anxiously studied the bill, surrounded by its gloomy symbolical border, announcing 8207 deaths in a week, out of a population of 600,000. Returns just published by order of the House of Commons, show that the total number of new houses huilt within the metropolitan police districts since January 1, 1839, up to September, 1849, amounts to 64,058; and the number of new streets formed to 1652, in length 200 miles. The increase of population from 1839 to 1849, within the said district, is estimated at 550,004; the total normalization of the metropolitan district being now about mated at 525,004; the total population of the metropolitan district being now about 2,336,960. In the hands of Price, Heberden, Willis, Bateman, and other statists, these records have disclosed the laws of mortality, and the causes of the insalubrity of the present cities.

STATISTICS OF METROPOLITAN BURIAL-GROUNDS.

In area, the parochial grounds take up 176 acres and 3-10ths; the Protestant Dissenters, 8 acres and 7-10ths; the Roman Catholics, 3-10ths of an acre; the Jews, 9 acres and 2-10ths; Swedish Chapel, 1-10th; undescribed, 10 acres and 9-10ths; private, 12 acres and 6-10ths. Total of intramural, 218 acres and 1-10th; total of new cemeteries, 260 acres and 5-10ths.

ľ		bı	Annual No. of irials exclusive f vault burials	•	No. of burials per acre.	1	Highest No. of burials per acre in any ground.		Lowcat No. of burials per acre in any ground.
ı	Parochial grounds		35,747		191		3073	••	11
ı	Protestant Dissenter	rs	1715		197	••	1210		6
ı	Roman Catholics		270		1043	••	1613		814
ı	Jews		340		33	٠.	52		13
ı	Swedish Chapel		10		108		_	٠.	_ '
ı	Undescribed		2197		294	٠.		••	5
ı	Private		5112	••	405	• •	2323	• •	50
1						٠.		٠.	_
ı	Total intramural		44.355		203	٠.		••	46
۱	Total of new cemet	erie		• •	13		155	• •	4
ı	Vault burials	••	789	••		••		• •	

It is computed that it requires seven years for a layer of bodies to decay in the metropolis,—Banfield and Weld's Statistical Companion.

RURAL ECONOMY.

CHOICE OF FOWLS, ETC.

THE most important varieties of Fowl are the Cochin China, the Malay,

THE most important varieties of Fowl are the Cochin China, the Malay, the Spanish, the Dorking, the Old Sussex, the Hamburg, the Polish, the Columbian or Mongolian, the Bantann, and the Game Fowl.

The Cochin China is usually of a bright bay colour, darker above with a hlack horse-shoe mark npon the breast, wings borne tightly up, bearing erect and lively, whole form approaching to that of the Bustard, comb and wattles large and simple. This fowl was introduced into Great Britain some years back by ller Majesty, and it is truly a Royal bird. The hen is prolube to an extraordinary degree; "Bessy," when in the possession of the Queen, is stated to have laid an egg daily for 95 successive days—a degree of fecundity untivalled by any other variety. These hens, also, repeatedly lay two, and even three eggs per day, for many days in succession. The flesh is excellent, but the bird is much too scarce and costly for general use. The cock is game to the last degree, capable of killing the most powerful game-cock in a few minutes.

The Malay is nearly as large as the Cochin China; but it is not a good bird in flesh. The hen does not lay so large an egg as ber size would promise. The Malay fowl ls, however, valuable for crossing with other varieties.

The Spanish is known by its jet black colour, large toothed comb and wattles, and white cbeek or earpiece. This is one of the very best birds, it is fully climatised, and consequently hardy, and of beautiful appearance; possesse flesh of the best and whitest quality, and acquires it very rapidly: the hen lays a large egg, and is only surpassed in fecundity by the Cochin China.

The Dorking is remarkable for possessing five well-developed toes, and sometimes a rudimentary sixth, on each foot. This is a plump-bodied white-fleshed fowl, very good for table nse: and tho hen is tolerably prolific, but not equal in that respect to the Spanish. The Sussex has latterly, to a great degree, superseded the Dorking in popular estimation; in form and appearance; indeed, the birds

respect to the Spanish. The Sussex has latterly, to a great degree, superseded the Dorking in popular estimation; in form and appearance; indeed, the birds are almost identical, save in colour—the Dorking being, when pure, usually of a speckled or cuckoo colour, and the Sussex being generally dark brown, sometimes relieved with white spangles. White Dorkings are prized by some, but they speckled or cuckoo colour, and the Sussex being generally dark of the specified with white spangles. White Dorkings are prized by some, but they are delicate, and do not attain any size.

The Hamburgh and Polish resemble each other closely, are known by their large top-knots, and gay, or even gorgeous plumage. They are very ornamental, but not entitled to the notice of such as look chiefly or solely to pounds, shillings,

aud pence.

The Columbian or Mongolian, a native of South America, is a small and sin-ularly heautiful hird, standing very erect. Its colour is a black ground, relieved gularly heautiful hird, standing very erect. Its colour is a black ground, relieved about the head, neck, and wing coverts by numerous spangles of white, and here and there patches of hrilliant green hronze. The comb of the cock is here and there patches of milliant green bronze. The comb of the cock is large, and the hen has one also; she has, too, a tuft of feathers below the hill, and two tufts springing, moustache-like, from the corners of the mouth. The egg laid by her is of extraordinary size, but she seldom lays more frequently than one every second day, and, during a considerable portion of the laying season, does not lay at all. As a fancy fowl, this may compete with the Cochin China; but its flesh is black and tough.

does not lay at all. As a fancy fow!, this may compete with the Cochin China; but its flesh is black and tough.

The Bantam is too well known to require description. The bay variety, with hlack spangles and naked legs, known as the "Schright," is the most valuable. At the show in London, in February, 1847, three of these birds fetched the amazingly large price of fifty pounds and one shilling. The Bautam is singularly prolific, and the little egg is considered a delicacy peculiarly suited to the invalid, or to persons whose digestive powers have become impaired.

The Game Fowl are very prolific, are ready fatteners, and possess more delicate flesh thau any other known variety. If they can be kept strictly apart, well and good; otherwise their pugnacity renders them unfit inmates of the general poultry-yard, as their individual value will by no uneaus compensate their keepers for the injury they may do to other, and probably more valuable hirds. Her Majesty's poultry-keeper, Mr. Walters, made the experiment of crossing the Dorking with the Cochin China fowl, and a noble and valuable breed was the result. Mr. Burgess, of Pill-lane, Dublin, has the merit of having established an entirlely new and valuable variety, known as "Burgess' Black," by a cross between Spanish and Malay, grafted with Dorking. The Snssex or Dorking makes a good cross with the Spanish. The Columbian and Sussex produces an admirable hird, possessing excellent shape, great fecundity, and retaining the charactoristic of laying eggs nearly as large as those of a goose. The advice to the farmer on the subject of crossing is, that he keep as a standing stock, Spanish and Sussex; that he also have, if possible, a Cochin China cock, but in any case a Malay cock. In this manner, he will, by cautious admixture, gradually arrive at his desideratum. The Sussex possesses the highest perfection of form; the Spanish the best flesh, and laying qualities of a high cbaracter; while the Malay gives increased size, and fif the the Cochin China which is employed

returns he will experience in the substantial and satisfactory form of pounds, shittings, and peace.

Most properly kept and properly fed fowl have, in January, begin to lay, and it is then advisable to set the eggs as early as you can collect a clutch. These early chickens will be ready the sooner to meet the market, and such as are to be kept will be the hetter able to endure, uninjured, the temperature of the ensuing winter.—Abridged and selected from a paper by Mr. H. D. Richardson, in the Agricultural and Industrial Journal, No. 1.

To make Hens Lay Perpetually.—Keep no roosters; give the hens a very small portion of fresh meat chopped up like sansage meat, say half an onnee a day to each hen, during the winter, or from the time insects disappear in the fall till they appear again in the spring. Never allow nest eggs. The only reason why hens do not lay all winter as freely as in summer is the want of animal food, which they get in summer in abundance, in the form of insects. The writer assures us that he has for several winters reduced his theory to practice, and proved its antire correctness. and proved its entire correctness.

Rules in Raising Poultry.-1. All young chickens, ducks, and turkeys should Rules in Raising Poultry.—1. All young chickens, ducks, and turkeys should be kept under cover, out of the weather, during rainy seasons. 2. Twice or thrice a week, pepper, shallots, shives, or garlic should be mixed up with their food 3. A small lump of assafectida should be placed in the pan in which wat r is given them to drink. 4. Whenever they manifest disease, by the droopir of the wings, or any other outward sign of ill-health, a little assafectida, loken into small lumps, should be mixed with their food. 5. Chickens which kept from the dunghill while young seldom have the gapes; therefore it should he the object of those who have the charge of them so to confine the hens as to preclude their young from the range of barn or stable yards. 6. Should any of the chickens have the gapes, mix up small portions of assafectida, rhubard, and pepper, in fresh butter, and give each chicken as much of the mixture as with and pepper, in fresh butter, and give each chickon as much of the mixture as will lie upon one-half the bowl of a small teaspoon. For the pip, the following treat-

ment is judicious:—Take off the indurated covering on the point of the tongue, and give twice a day, for two or three days, a piece of garlic the size of a pea. If garlic cannot be obtained, onlon, shallot, or shives will answer; but if neither of these be convenient, two grains of black pepper, to be given in fresh hutter, will answer. 8. For the snuffles, the same remedies as for the gapes will be found highly curative; bnt, in addition to them, it will be necessary to melt a little assafectida in fresh butter, and rub the chicken about the nostrils, taking care to clean them ont. 9. Grown-np dneks are sometimes taken off rapidly by convulsions; in such cases, four drops of rhubarb and four grains of eaverne pepper, mixed in fresh butter, should be administered. Last year we lost several by this disease, and this year the same symptoms manifested themselves among them; but we arrested the malady without losing a single duck, by a dose of the above medicine to such as were ill. One of the ducks was at the time paralysed, but was thus saved.—Canterbury Journal. lysed, but was thus saved .- Canterbury Journal.

Wuspa' Nests.—These troublesome insects appeared during the past yearin great numbers. It is not always possible completely to demolish the nest. The following contrivance for entrapping the stragglers will be found useful. Bury a wino bottle in the ground, so that the nouth alone shall he nueovered. The experiment will be the surer if a small quantity of sugar and water, or honey, be left at the bottle of the vessel. The wasps will get into the bottle, and be nuable to effect an exit; and in a short time it may be taken up chokefull of carcases.

Cure for Bee-Stings.—The only positive and immediate cure for a bee-sting wo have ever heard of, that may be depended on in all cases, is tobacco. The manner of applying it is as follows:—Take ordinary tine-cut smoking or chewing tobacco, and lay a pinch of it in the hollow of your hand, and moisten it and work it over until the juice appears quite dark-coloured; then apply it to the part stung, rubbing in the juice, with the tobacco between your thumb and fingers, as with a sponge. As fast as the tobacco becomes dry, add a little moisture and continue to rub and press out the juice upon the inflamed spot during five or ten minutes; and, if applied soon after heing stung, it will cure in every case.—Miner's American Bee-Keeper's Manual.

DUTTER-MAKING.

nutter Making.

lu the Valais, Dr. Forbes, the celebrated physician, assures us, Butter is preserved sweet, or, at least, perfectly fit for use, through the whole season, viihout any admixture of sait. The following is the way in which it is treated:—"A narrow deal hoard, not more than tour or fivo inches wide, is fixed horizontally in an open place in the dairy; wooden pins, from two to three fect in length, are fixed in an upright position into this, their whole length projecting above its surface. As the hutter is made it is placed daily around these pins (one at a time), beginning at the lower end, and in a mass not exceeding at first the width of the hoard. Every day, as more hutter is made, it is added to the previous portion around the pin, the diameter of the growing mass being gradually enlarged npwards, until the upper surface overhangs the base to a considerable extent, like an inverted beehive. When one pin is filled, another is proceeded with in like manner, and so on. The exposed surface of these masses sets soon covered with a sort of hard film, which effectually excludes the access of the air; and this circumstance, with two others—viz. the complete expression of milk from the butter, and the unobstructed circulation of a cool mountain air through the châlet, will go far to explain how butter so treated can remain so long without hecoming spoiled." Dr. Forbes also gives the following mode of preparing the winter store of hutter, or what is called in the Valais and Piedmont beurre cuit, or boiled butter, which the Doctor considers mucb more advantageous to health and comfort than the cheap salt hutter sold in England:—"Into a clean copper pan (hetter, no doubt, tinned) pnt any quantity of butter, say from twenty to forty pounds, and place it over a very gentle fire, so that it may melt slowly; and let the heat be so graduated that the melted mass does not come to the boil in less than ahout two hours. During all this time the hutter must be frequently stirred, say once in five or ten minutes, so

To Correct Sourness in Milk, Cream, and Bread.—It is not generally known To Correct Sourness in Milk, Creum, and Bread.—It is not generally known that the sonrness of milk and cream may be immediately corrected by the addition of a small quantity of the common carbonate of magnesia, in powder. Half a teaspoonfut (about equal to 4 grains) may be added to a pint of milk or cream, it only slightly sour; a larger quantity in proportion to the degree of sourness. From two to three grains may be added to every pound of flour to prevent sourness in bread—so injurious to health. Carbonate of soda is sometimes employed for the same purpose, but it communicates a very unpleasant flavour to the bread; and, in the case of milk or cream, is worse than the disease.

TO CURE HAMS

Westphalia Hams.—Get the hams cut in the shape of Westphalias, long, narrow, and pointed at the end, and put them under a board, heavily pressed down, to flatten them. About four days after killed, ruh them with common rough salt, particularly about the hip-bone and knuckle joints. After a day and a night, remove the salt, dry the hams with a coarse cloth, and ruh into each 1 oz. saltpetre powdered finely, and let it lie for 24 hours. Then mix powdered saltpetre, 1 oz.; common salt, ½ lb.; bay salt, ½ lb.; coarse sugar, 1 lh.: make them hot iu a pan—but be careful not to melt them—rub them well in while hot, all over the fleshy and rind sides, and finish with half a pound more common salt. Let the hams lie thus until a brine appears, strew bay-leaves both under and over, turn them every day, and rub them and basic them with the brine for three weeks; then take them out of picklo, and soak them in cold spring water for twenty-four hours; let lhem drain; wipe them with a cloth; rub them with coagulated pies' blood, and put them to smoke for a week, well smothered. Or, a sort of Westphalia flavouring may he made of 100 parts of water, 4 of salt, 2 of brown sugar, 1 of Barbadoes tar, and 1 of spirit of wine. After it has been well mixed, and stood for several days, 3 table-spoonfuls may be mixed with the salt necessary to cure a ham.

Westmoreland Hams.—Procure a leg of pork, about 20 lb. weight; rnb it well

with 3 oz. saltpetre, and let it lie 14 hours. Then mix stale porter or beer, 2 qts.; common salt, 2 lb.; coarse sugar, 2 lb.; hay salt, pounded, 1 lb.: boil and skim it well, and pour it hot over the meat. In this pickle the meat must remain one month, being ruhbed and turned at least every other day. Then take it out, rub it dry, and roll it in malt-dust, or outmeal; smoke the ham three weeks, and hang it in a dry but not warm room.

Warwickshire Hams .- Ruh the leg of pork with 2 oz. powdered saltpetre, particu-Warnickshire Hams.—Rut the leg of pork with 2 oz. powdered saltpetre, particularly about the hip-joint, and let it lie 24 hours. Then mix soft water, I gallon; pale dried malt, t peck; sugar or treacle, I lb.; bay salt, bruised, I ½ lb.; common salt, 2½ lb.; shalots or ouions, sliced, 3 oz. Boil together ten minutes; skim the pickle; pour it hot over the meat, and let the grains remain until they begin to be sticky, when they may be drained in a sieve, and removed. Keep the ham covered with this pickle for three weeks, and turned and rubbed every day for three weeks, when it may be taken out, dried with cloths, and smoked three weeks or a month. Put the ham into a box with malt-dust, and cover from the air with sand dried in an oven. The three preceding receipts are from "The Whole Art of Pickling, Curing, and Smoking Meat and Fish," by James Robinson, eighteen years a practical curer.

Beef Pickle, à la Garrick. (Red.)—Take 20 lb. of salt, \$\frac{4}{2}\$ lb. saltpetre 4 cakes sal prunella, 2 lb. moist sugar, and 2 cloves of garlic. Pound and mix all together, rub with it the meat, cover it for about a week, rubbling and turning it every other day.

WINE FROM THE RHUBARB STALK.

WINE FROM THE RIUBARB STALK.

Mr. Roberts, of Edinburgh, has appended to the fifth edition of his "British Wine-maker and Domestic Brewer," a Supplement on the Rhubarb Plant, showing it to be a basis nearly as valuable as that of the Grape for producing Champagne, Hock, Madeira, and Constantia. If sweet wine be required, six pounds weight of stalk to a gallon of water will he a proper propertion; but if a dry wine, to imitate Hock, Vin Grave, &c., is wished, more than double that weight will be necessary. The rhubarb should be used as soon after being cut as possible; and if it be of superior quality, the stalks, when ground or grated, and thoroughly pressed, will yield ahout cighty per cent. of juice; so that, by using 13 pounds, we should have rather nore than 10 pounds of juice, and by adding one gallon of water to every t3 lh. of rhubarh stalk, when pressed, we should have two gallons of juice and water; viz. ten pounds of rhubarh juice giving one gallon, and 10 lb. of water giving one gallon. This mixture, nade with 18 lb. of rhubarh stalk to the gallon, will take about 3\frac{1}{3} lb. of sugar to each gallon, which should be the finest East India or crushed sugar; the sugar giving an excess in quantity of t\frac{3}{3} pint to each gallon. an excess in quantity of t\frac{3}{2} pint to each gallou.

The requisite implements and utensils are a small apple-mill, a fermenting tuh,

The requisite implements and utensils are a small apple-mill, a fermenting tuh, a cask of the same description, but less in size (say 18-gallon), with two or three tap-holes on a line in the front, and near the bottom; the top heing taken out, and a flat circular slab of wood, with a few perforated holes, made to fit the interior. This slab, with one or two half-hundredweights placed on tt, is to act the pulp-press. Next will be required a sherry quarter-cask, capable of containing about 28 gallons; two tubs, similar to washing-tube, each to hold 15 gallons—one to receive the pulp from the mill, the other to receive the juice from the press; a hair sieve and stand complete the utensils.

from the press: a hair sieve and stand complete the utensils.

Assuming the quantity of Hock to be made is 27 gallons, with two additional gallons for casking, the weight of rhubarb stalk required will he 156 lh., to be ground in the apple-mill, the pulp running into a tub placed under the spout, and then put into the small cask or press. This press is also placed on a stand, so as to admit the other tub under it to receive the pressed juice which flows from the tap-holes. The juice is then strained through a sieve into the fermenting-tub. Meanwhile, the shah with the weights upon it is put on the pulp in the press, and the pressed juice thus procured strained and added to the former; and in an honr or so the corks may be replaced in the tap-holes, and the slab and weights removed.

weights removed.

The juice which has been strained into the fermenting-th will measure about t2 gallons. Twelve gallons of water, if possible at the heat of 80° to 100°, are to he poured on the pressed pulp in the small cask or press, the whole thoroughly he poured on the pressed pulp in the small cask or press, the whole thoroughy agitated, and then allowed to renail eight or ten hours, in order to extract what value may have been left in the pulp; after which this liquor is to be drawn off, and added to the juice in the fermenting tub. The pulp is to undergo a second pressing with the slab and weights, and the pressed liquor is to he added to the former juice, which should measure now, in the whole, 24 gallons.

Eighty-four pounds of sugar—the whiter the better—are next to be put to the juice and water in the fermenting-tub, which will cause it to measure about 29 gallons. With this sugar should be put in three-quarters of a pound of tartaric acid, thoroughly dissolved in a little holling water; and the whole should he then well mixed together.

acid, thoroughly dissolved in a little noting water; and the whole should be then well mixed together.

The fermenting-tub, containing the must, is to be placed in a warm situation, and the must weighed with a saccharometer, which will indicate perhaps a degree or so more or less than the required standard, 26, i. e. 130. If more, a little hoiling water may be added to reduce it; if less, as much sugar as will bring the must up to that point.

the must up to that point.

It is then allowed to ferment until it is reduced in gravity to 80 or 90, heing in the interval carefully stirred and weighed. When reduced to 80 or 90, it is to be casked in a newly-emptied sherry quarter-cask, of 27 or 28 gallons. There will be enough must to fill the cask at first, and to continue filling it during the time it remains unbunged; the cask being placed obliquely upon a stand, with a dinder it. During the time the wine is fermenting, and before it is hunged down, it should he tried with the saccharometer once a week; and when reduced to one-balf its original gravity, say 65, the cask may be burged down, and the will half its original gravity, say 65, the cask may be bunged down, and the wine allowed to remain undisturned until October or November, supposing it to have been made in May or June. By this time it should be reduced to 30 of gravity. If, however, at any of these examinations it is found that the wine has attenuated

If, however, at any of these examinations it is found that the wine has attenuated helow 30 before the period just mentioned, it must he numediately racked off, to prevent its being too much reduced.

It is then advisable to get another newly-emptied sherry quarter-cask, and to fumigate it twice at ahout an hour's interval; $2\frac{1}{2}$ gallons of the finest Somerest-shire eider, with half a gallon of Bucellas wine, are to be put into the cask, to he hunged and well rolled about to incorporate the finnes of the brimston with the contents. The clear portion of the wine is then to he racked into it, leaving room for the finings, usually consisting of a little isloglass dissolved in sour wine.

A very delicious und cheen wine may be made from runbarb eather. Sides of the sides of the strength of the sides

A very delicious and cheap wine may he made from rhubarb stalks -6; lb. to every gallen of water, and 3; lb. of sugar to each gallon of juice and water. The rhubarh is ground to a pulp in an apple-mill, and the jnice then pressed out of it; it is worked as other home winos, and fined by adding 4 lb. of sugarcandy, dissolved.

Cold Cream .- Warm gently together four ounces of oil of almonds and one ounce of white wax, gradually adding four ounces of rose-water. This will make good cold cream, whereas that sold in the shops is usually nothing more than lard heat up with rose-water.

COOKERY.*

White Haricot Beans.—Nothing is so cheap or so solid food as haricot beans. Get a pint of fine white beans, called the dwarf; put them into half a gallon of cold soft water, with one ounce of butter; they take about three hours to cook, and should simmer very slowly; drain them and put them into a stewpan, with a little salt, pepper, chopped parsley, two ounces of hutter, and the juice of a lemou, place on the fire for a few minutes, stir well, and serve. The water in which it is boiled will not make a had soup by frying four onions in hutter in a stewpan, adding a little flour, then the water poured over, and a slice of toasted bread cut in pieces, and served in a tureen. Sbould the water in boiling reduce too fast, add a little more. The longer sort requires to be soaked a few hours before holling.

Irish way of Boiling Potatoes.—In Ireland, where this root has been for so long

Irish way of Boiling Potatoes.—In Ireland, where this root has been for so long Irish way of Boiling Potatoes.—In Ireland, where this root has been for so long a period the chief nourishment of the people, and where it takes the place of bread and other more substantial food, it is cooked so that it may have, as they call it, a bone in it; that it, that the middle of it should not be quito cooked. They are done thus:—Put a gallon of water with two ounces of salt in a large irou pot, boil for about ten minutes, or until the skin is loose, pour the water out of the pot, put a dry cloth on the top of the potatoes, and place it on the side of the firo without water for about twenty minutes, and serve. In Ireland turf is the principal article of fuel, which is burnt on the flat hearth: a lattle of it is generally scraped up round the pot so as to keep a gradual heat; by this plan the potato is both boiled and baked. Even in those families where such a common art of civilised life as cooking ought to have made some progress, the only improvement they have upon this plan is, that they leave potatoes in the dry pot longer, by which they lose the bone. They are also served up with their skins (jackets) on, and a small plate is placed by the side of each guest.

Beetroot.—Take two nice young boiled beetroots, which wilt require about from two to three loans to simmer in plenty of boiling water; peel when cold, cut in slanting direction, so as to make oval pieces; peel and cut in small dice two middling sized ontons, put in a pan, with two onnees of butter, fry white, stirring continually with a spoon; add a spoonful of flour, and enough milk to make a

continually with a spoon; add a spoonful of flour, and enough milk to make a nice thickish sauce, add to it three saltspoonfuls of salt, four of sngar, one of pepper, a spoonful of good vinegar, and boil a few minutes; put in the slices to simmer for ahout twenty minutes, have ready some mashed potatoes, with which make a neat border in your dish one inch high, then put the heetroot and sauce, highly seasoned, in the centre, and serve.

highly seasoned, in the centre, and serve.

Teal, a new method.—Procure four, draw them, then put half a pound of hutter upon a plate, with a little pepper, grated nuture, parsley, a spoonful of grated crust of hread, the juice of a lemon, and the liver of the teal, mix well together, and with it fill the interior of the teal; cover them with slices of lemon, fold in thin slices of bacon, then in paper, and roast twenty minutes before a sharp fire; take off the paper, brown the bacou, dress them upon a slice of thick toast, letting the hutter from the teal run over it, and serve very bot

upon a slice of thick toast, tetting the flutter from the toat the serve very hot.

Pig's Cheek, a new method.—Procure a pig's cheek, nicely pickled, boil well until it feels very tender; tie half a pint of split peas in a cloth, put them into a stewpan of holling water, boil about half an hour, take them out, pass through a hair sieve, put them into a stewpan, with an ounce of hutter, a little pepper and salt, and four eggs, stir them over the fire until the eggs are partially self, then spread it over the pig's cheek, egg with a paste-brush, sprinkle bread-counts over place in the oven ten minutes, brown it with the salamander, bread-crumbs over, place in the oven ten minutes, brown it with the salamander,

-Put into a stewpan two ounces of hutter, not too hard, also Metted Butter.—Put into a stewpan two ounces of hutter, not too hard, also a good tablespoonful of flour, mix both well with a wooden spoon, without putting it on the fire; when forming a smooth paste, add to it a little hetter than half a pint of water; season with a teaspoonful of salt, not too full, the sixth part that of pepper; set it on the fire, stir round continually until on the point of hoiling; take it off, add a teaspoonful of brown vinegar, then add one ounce more of fresh butter, which stir in your sauce till metted, then use where required; a little nutuneg grated may be introduced; it ought, when done, to adhere lightly to the back of the spoon, but transparent, not paty: it may also, if required, be passed through a tammy or sieve. If wanted plainer, the last butter may be conjuted. butter may be omitted.

if required, be passed through a tammy or sieve. If wauted plainer, the last bother may be omitted.

Fritadella (twenty receipts in one).—Put half a pound of crumh of bread to soak in a pint of cold water; take the same quantity of any kind of roast or boiled meat, with a little fat, chop it up like sausage meat; then put your bread in a clean cloth, press it to extract all the water; put into a stewpan two ounces of butter, a tablespoonful of chopped onions, fry for two minutes, then add the bread, stir with a wooden spoon until rather dry, then add the neat, season with a teaspoonful of salt, half the same of pepper, a little grated nutmeg, the same of lemon peel, stir continually until very hot; then add two eggs, one at a time, well mix together, and pour on a dish to get cold. Then take a piece as hig as a small egg, and roll it to the same shape, flatten it a little, egg and bread-crumb over, keeping the shape, do all of it the same way, then put into a saute-or a quarter of a pound of lard, or clean fat, or oil; when hot, but not too much so, put in the pieces, and saute a very nice yellow colour, and serve very hot, plain, on a napkin, or on a horder of mashed potatoes, with any sauce or garniture you faucy. These can he made with the remains of any kind of meat, poultry, game, fish, and even vegetables; hard eggs or cold mashed potatoes may be introduced in small quantities, and may be fried instead of saute, in which case put about two pounds of fat in the frying-pan, and if care is used it will do several times. This is an entirely new and very economical and palatable dish, and fit for all seasons, and if once tried would he often repeated; the only expense attending it is the purchase of a small wire sever between the read-crumhs. The reason it is called twenty receipts in one is, that all kinds of food may be used for it

it is called twenty receipts in one is, that all kinds of food may be used for it—even shrimps, oysters, and lobsters.

Batter for Fritters.—Take half a pound of flour, one ounce of butter (which melt), the whites of three eggs, well heaten, half a glass of beer, and enough

mett), the whites of three eggs, well heaten, half a glass of beer, and enough water to make a thick batter.

New Mode of Making Coffee—Choose the coffee of a very nice brown colour, but not black (which would denote that it was hirnt, and impart a bitter flavour); grind it at home if possible, as you may then depend upon the quality; if ground in any quantity, keep it in a jar hermetically scaled. To make a pint, put two onuces into a stewpan, or small irou or tin saucepan, which set dry npon a moderate fire, stirring the coffee round with a wooden spoon continually until it is quito hot through, but not in the least hurat: should the fire be very fierce, warm it by degrees, taking it off every now and then until hot (which would not be note than two minutes) when pure gar a pint of boiling water, cover close. ward it by degrees, taking it on every now and then that not (which would not be more than two minutes), when pour over a pint of boiling water, cover close, and let it stand by the side of the fire (hut not to holl) for five minutes, when strain it through seloth or a piece of thick gauze, rince out the stewpan, pour the coffee (which will be quite clear) back into it, place it upon the fire, and, when nearly holling, serve with hot milk if for breakfast, but with a drop of cold

* From Soyer's "Modern Housewife."

milk or cream if for dinner. The foregoing proportions would make coffee good enough for any person, hat more or less coffee could be used if required; the cloth through which it is passed should be immediately washed and put by for the next occasion. A hundred cups of coffee could be made as here directed in half an hour, by procuring a pan sufficiently large, and using the proper proportions of coffee and water, passing it afterwards through a large cloth or jelly-bag.

How to Make a Delicious Cup of Tea.—Before pouring in any water, the tea-pot, with the tea in it, should be placed in the oven till hot, or heated by means of a spirit-lamp, or in front of the fire (not too close, of course), and the pot then filled with boiling water. The result will he, in about a minute, a most delictous cup of tea, much superior to that drawn in the ordinary way.

Rhubarb Jam. (Manchester Receipt.)—Boil gently, for three hours, an equal weight of fine sugar and rhuharb-stalk, with the juice and grated rind of a lemon weight of the state and radial estate, with the face and grader find of a fellow to each pound of the fruit. When the true flavour of the rhubarh is much liked, the lemon-peel should be omitted. A very good jam may be made with six onuces less of sugar to the pound, hy boiling the rhubarh gently for an hour before it is added.

Coffee, French Fashion.—To a pint of coffee, made as hefore directed, add a pint of boiling milk, warm both together until nearly hoiling, and serve.

NEW KITCHEN IMPLEMENTS.

M. Soyer, in his "Modern Housewife," (lately pnhlished), describes a Magic Lsmp Stove, with which may be cooked, on the breakfast-table, a cutlet, ham, or hacon, or eggs may be poached. In this new and portable apparatus, the heat is given hy vapour of spirit of wine passing threugh a flame: it will cook cutlets, or hoil water, in as short a time as the best charcoal; with the sauté-pan everything can he cooked as on a charcoal fire; and with a small saucepan anything that may he required in the room of an invalid, where the heat of a fire would not he allowed. In place of the kitchen-range, the hot-plate, and the charcoal stove, M. Soyer recommends a Gas Stove, which is very economical; the fire heing left to go out after dinner, and some days not heing even lit, it is exceedingly clesn. This new stove is placed in the middle of the kitchen: it combines a roasting fire, circulating hot-water hoiler, oven, and hot plate, all heated by one fire; the hoiler heats the water at the top of the house for the haths, and which can be laid on into any room; the advautage is that it gives more room in the kitchen, in being able to walk all round it; there are also different degrees of heat on the hot plate, and room for the hain-marie pan: the smoke goes under the floor into the old chimney. It is made by Messrs. Bramah and Prestage, of Piccadilly. It could he fitted with a steamboiler if required, and would he valuable in hotels and taverns: in a cottage, the linen could he dried around it without danger from fire; and it also cures smoky chimneys. There is very little heat arising from it.

HOW TO FIT UP A KITCHEN.

Among other improvements in kitchen fittings, the dressers are made with drawers and slides, which is very convenient, as anything dirty may be placed upon them, and the cloth he thus sveo. The rall above contains all the copper stewpans. An other dresser is used for placing the dishes on when sending up the dinner: it has the covers over it; and underneath, the dripping pan, fryingpan, gridiron—so that nothing is hid from sight, therefore they cannot hut he clean. This is a good plan; for those mysterious closets are often found full offit, hroken plates, old towels, and everything that is wanted to he hidden from sight. There is a little scullery; it is supplied with hot and cold water, and has a sink, in which are washed the plates, dishes, coppers, &c., or anything else; so that all dirt is kept out of the kitchen; but this is every bit as clean as the kitchen. The larder is paved and lined with slate: the window, which is protected hy wire, opens to the north. Under the window is the pastry-slah, with ice-drawer under that. In one corner is the meat hlock and table, with scales to weigh all that comes into the larder. Here is the safe, with a sliding door on pulley, and in which are the vegetable hins; and here, also, is one of Lings's patent ice-safes. The meat hangs from tin hooks. There are two hoxes for powdered herbs of all kinds (Makepeaces), and also essences for confectionery. This is called the housewife's hox.

The following stock of utensils is considered to he quite complete, and hy no Among other improvements in kitchen fittings, the dressers are made with

The following stock of utensils is considered to he quite complete, and hy no means too numerous:—8 copper stewpans, two larger ones holding one gallon and a half, and the next one gallon, the others smaller by degrees to one pint; 1 oval fish-kettle, holding ahout one gallon and a half,—hut if by chance you have a turbot, borrow a kettle from the fishmonger; 1 middle-sized hraising-pan; 1 preserving-pan; 1 round howl for heating whites of eggs; 2 sauté-pans; 1 omelette-pan; 1 frying-pan; 1 bain-marie; 6 saucepans for the sauce; 1 middle-sized thing-mould; 2 thi jelly-moulds; 1 thi flanc-mould for fruit; 1 freezing-pot, with every requisite; 2 haking-sheets; 1 gridiron; 1 small salamander: 1 colander-spoon; 1 hottle-jack; 2 spits; 1 dripping-pan; 1 screen; 1 surgar-pan; 2 soup-ladles; 8 copper spoons, two of them colanders; 2 wire haskets; 1 wire sleve; 2 hair sleves; 24 tartlet-pans; 2 tammies; 1 jelly-hag; 12 wooden spoons; 2 paste-hrushes; 1 pair of scissors; 2 kitchen-knives; 6 larding-needle; 1 packing-needle; 1 box of vegetahle-cutters; 1 hox of paste-cutters; 1 meat saw; 1 cutlet-chopper; 1 meat-chopper; 6 meat-hooks, tinned; 1 rolling-pin; 8 kitchen hasins; 6 china pie-dishes; 6 earthen bowls for soups and gravies; 4 kitchen tahle-cloths; 18 ruhbers; 12 fish napkins; 6 pudding-cloths; 4 round towels. These utensils, no doubt, appear very numerous, but, at the same time, they are no more than are required; and it is only the first nine articles which me are ather expensive: the others can be had at the cost of a few shillings. The lines should be placed in the presses every week, and an exact account kept of it; The following stock of utensils is considered to he quite complete, and hy no are rather expensive: the others can be had at the cost of a few shillings. The linen should he placed in the presses every week, and an exact account kept of it; for it is only hy so doing that so small a quantity can he kept in use. The stock consists of 12 pairs of sheets; 10 ditto pillow-cases; 3 dozen of napkins; 2 dozen and a half of various-sized table-cloths, including breakfast, dinner, &c., 6 servants' table-cloths; 3 dozen towels; 6 round towels; 3 dozen kitchen rubhers; 2 dozen napkins for fish, vegetables, and fruits; 6 pudding cloths; 2 dozen damask d'oylies; 1 dozen Berlin wool ditto. Occasionally in the wash are the cover of the carpet, the anti-macassars, and the netted window curtains. Of glass and china, provide the following; they should be counted every month, and the broken ones replaced; 3 dozen wine-glasses; 2 dozen champagne ditto; 2 dozen claret ditto; 3 dozen goblets; 6 water carafes; 6 decanters; 1 liqueur stand, 12 liqueur glasses; 2 glass jngs; 1 cleery glass; 1 trifie dish; 8 dessert dishes.—China, 1 full dinner service; 1 common set for kitchen; 1 good dessert service.—The following is the list of Plate: 3 dozen of prongs; 2 dozen of tahlespoons; 1 and a half ditto of dessert-forks; 2 ditto of feas-spoons; 6 salt-spoons; 1 cheese knife; 4 Inter-knives; 1 asparagustongs, 2 sugar tongs; 1 soup-ladle; 4 sance ladles; 2 gravy-spoons; 2 sugar-ladles; 2 salvers; 1 hread-hasket; 4 candlesticks; 1 hot-water dish for haunch of mutton. mutton.

GENERAL POSTAL REGULATIONS, &c.

RATES OF POSTAGE.—All letters from one part of Great Britain to another (including the Local Penny Posts and the London Twopenny Post) are charged, if prepaid, and not

Exceeding half an ounce ... Exceeding half an ounce, and not exceeding one ounce ...

and so on, at the rate of 2d. for every additional ounce or fraction of an ounce. Unpaid and unstamped letters are charged double postage on delivery.

Hours of Posting for the Evening Malls.—The Receiving-Houses close at 5 30 p.m.; hut letters are received for the evening's dispatch until 6 p.m., if an extra benny stamp is affixed. The Branch Post-offices at Charing Cross, Old Cavendish-street, and Stones-end, Southwark, receive letters until 6 p.m., and until ½ to 7 p.m. by affixing an additional penny stamp. At the Branch Post-Office in Lombard-street, the hox remains open without additional fee until 6 p.m., and until 7 p.m. by affixing a penny stamp. At the General Post-Office in St. Martin's-le-Grand until 6, free; and until 7, by payment of the extra charge as at Lombard-street. From 7 to half-past 7 p.m., letters may be posted at the General Post-office upon payment of a fee of sixpence each, which must, as well as the postage, he pre-paid. Letters intended to pass hy outward mails to foreign parts must he posted at the above hours.—N.B. Newspapers for the evening mails must he put into the Receiving-Houses hefore 5 p.m., the Branch offices hefore 5 30, or General Post-Office hefore 6 p.m. From 6 p.m. to 7 30, on payment of one-half-penny late fee; except newspapers for foreign parts, which must he posted at the General Post-Office and Branch Offices hefore 6 p.m., and at the Receiving-Houses hefore 5 p.m., and at the Receiving-Houses hefore 5 p.m., and at the Receiving-Houses hefore 6 p.m., and at the Receiving-Houses hefore 6 p.m., and at the Receiving-Houses hefore 6 p.m., and at the Receiving-Houses hefore 6 p.m. forwarded to most of the principal towns in Eogland and Houas of Posting for the Evening Mails .- The Receiving-Houses close at

must be posted at the General Post-Office and Branch Offices before 6 F.M., and at the Receiving-Houses before 5 F.M.

Morning Malls are forwarded to most of the principal towns in Eogland and Wales, and to all parts of Ireland and Scotland, for which the letter-hoxes at the Receiving-Houses will be open till 7 a.M. for newspapers, and \(\frac{1}{2}\) to 8 a.M. for letters; and at the Branch Offices, Charing-cross, Old Cavendish-street, and the Borough, for newspapers until half-past 7 a.M., and for letters until 8 a.M. at the General Post-Office and the Branch Office in Lombard-street, the boxes will close for newspapers at a quarter before 8 a.M., and for letters at half-past 8 a.M. Any Single Book or Panpilet can now he sent through the Post-Office to any part of the United Kingdom if not exceeding 16 oz. in, weight, and open at both ends, by affixing six postage stamps; if shove 16 oz. 1s., and 6d. for every additional pound or fraction of s pound. The Postmaster-General does not guarantee the delivery of hooks and pamphlets with the same accuracy and regularity as newspapers and letters, but in no case will the delivery he delayed more than 24 hours after the usual post.

British and Colonial Parers between British Colonies, without passing through the United Kingdom, to be free; except that 1d. may he allowed as a gratuity to the master of the vessel conveying them.

Newspapers, Baittsh, Foreign, or Colonial, passing hetween British or Colonial and Foreign ports, and through the British post, to pay 2d.; if not through the British post, and through the British post, to pay 2d.; if not through the British post, and through the British post, because the beautives

NEW POSTAGE STAMPS intended principally for the pre-payment of foreign letters have been issued. They are of the value of one shilling each, the colour heing green, and the form octagonal, and another of the value of tenpence of a

heing green, and the form octagonal, and another of the value of tenpence of a hrown colour. These stamps may be need for inland as well as foreign postage, hut they are chiefly intended for the postage of letters to the United States, India, china, the West Indies, New South Wales, and New Zealand, &c.

PACKAGES which in length, breadth, or width exceed twenty-four inches, cannot he forwarded hy post hetween any places within the United Kingdom; except, however, petitions or addresses to her Majesty, or petitions to either House of Parliament forwarded to any Member of either House, or printed votes or proceedings of Parliament, or letters to or from any Government of the contractors. ment offices or departments.

printed votes or proceedings of Parliament, or letters to or from any Government offices or departments.

Money Order Orders.—With a view to simplicity and economy in the accounts of the Money Order Office, it has been found necessary to lay down the following rules:—I. Every money order issued on or after the 6th October, 1845, must he presented for payment hefore the end of the second calendar month after that in which it was issued (for instance, if issued in October, it must he presented for payment hefore the end of December), otherwise a new order will be necessary, for which a second commission must be paid. 2. As already notified to the public, if an order be not presented for payment hefore the end of the twelfth calendar month after that in which it was issued (for instance, if issued in October and not presented hefore the end of the next October), the money will not he paid at all. 3. As, after once paying a money order, by whomsoever presented, the office will not be liable to any further claim, the public are strictly cautioned a. To take all means to prevent the loss of the money order. b. Never to send a money order in the same letter with the information required on payment thereof, c. To he careful, on taking out a money order, to state correctly the Christian name as well as the surname of the person in whose favour it is to he drawn. d. To see that the name, address, and occupation of the person taking out the money order are correctly known to the person in whose favour it is drawn. 4. Neglect of these instructions will lead to delay and trouble in obtaining payment, and even risk the loss of the money. These instructions, together with some others of minor importance, will be found printed on every money order. on every money order.

CONSULATE AND PASSPORT OFFICES.

CONSULATE AND PASSPORT OFFICES.

Austria.—Embassy, 7, Chandos-street, Cavendish-square, between 12 and 2.

Belgium.—Legation, 9 A, Weymouth-street, Portland-place, hetween 11 and 3;

delivered next day between 11 and 2, gratis; at the Consul's office, 3, Copthallcourt, hetween 10 and 4—fee 5s.

Bavaria.—The Minister, 3, Hill-street, Berkeley-square, when personally known
to him; or at the Consul Office, 334, Great St. Helen's.

Baazii.—Legation, 41, York-street, Portman-square, hetween 12 and 2, gratis.

Denmark.—6, Warnford-court, between 10 and 4—fee 10s. 6d.; under special
circumstances at the Embassy, 2, Wilton-terrace, Belgrave-square.

France,—French passport-office, 6, Poland-street, Oxford-street, from 12 to 5;
delivered immediately on personal application, and payment of 5s; also at the
Consul's office, 3, Copthall-huildings, between 12 and 4—fee 5s. One passport
will include a whole family and servants.

Naples and Stelly.—Passport-office, 15, Princes-street, Cavendish-square,
Mondays and Thursdays, between 10 and 12; delivered following day hetween 2 and 3, gratis.

tween 2 and 3, gratis.

PORTUGAL.—Embassy, 57, Upper Seymour-street, Portman-square, hetween 11 and 4, delivered following day; also at Consul's office, 5, Jeffrey's-square, St.

Mary-axe, from 10 to 4.

PRUSSIA.—106, Fenchurch-street, hetween 10 and 6—fee 7s.

RUSSIA.—2, Winchester-huildings, hetween 10 and 4; delivered following day fee 6s. 4d.

THE QUEEN AND ROYAL FAMILY.

THE QUEEN.—VICTORIA, of the United Kingdom of Great Britain and Ireland Queen, Defender of the Faith, was born May 24th, 1819; succeeded to the throne, June 20th, 1837, on the death of her uncle, King William IV.; crowned, June 25th, 1838, and married, February 10th, 1840, to lis Royal Highness Prince Albert. Her Majesty is the only daughter of his late Royal Highness Edward Duke of Kent, son of King George III.

His Royal Highness Francis Albert Augustus Charles Emanuel Busici, Duke of Saxe, Prince of Coburg and Gotha, K.G., Consort of her Majesty, born August 26th, 1819.

Her Royal Highness Victoria Adelaide Mary Louisa, Princess Royal, born No.

Her Royal Highness Victoria Adelaide Mary Louisa, Princess Royal, born November 21st, 1840.

His Royal Highness Albert Edward, Prince of Wales, born November 9th, 1841.

His Royal Highness Albert Edward, PRINCEOF WALES, born November 9th, 1841. Her Royal Highness Alfred Ernest Albert, born Angust 6th, 1844. Her Royal Highness Princess Helena Augusta Victoria, born May 25, 1846. Her Royal Highness Princess Louisa Caroliua Alberta, born March 18, 1848. THE QUEEN DOWAGEA.—Amelia Adelaide Louisa Theresa, sister to the reigning the form of the results of the re

Duke of Saxe Meiningen, born August 13tb, 1792; married July 11th, 1818; crowned September 8th, 1831.

Ernest Augustus, Doke of Cumberland, in Great Britain, and King of Hanover, uncle to her Majesty, born June 5tb, 1771, married, August 29th, 1815.

OVER, uncle to her Majesty, born June 5tb, 1771, married, August 29th, 1815. Issue, George Frederick.

Adolphus Frederick, Duke of Cameridge, uncle to her Majesty, born February 24th, 1774; married, May 2nd, 1818, ber Serene Highness Augusta Wilbelmina Louisa, youngest daughter of Frederick, Landgrave of Hesse. Issue, three children.

Mary, Auut to her Majesty, born April 25th, 1776; married, July 22nd, 1816, her cousin, the Duke of Gloncester, deceased.

Victoria Mary Louisa, Duchess of Kent, born August 17th, 1786; married, in 1818, the Duke of Kent (who died January 23rd, 1820); her Majesty's mother.

Augusta Wihelmina Louisa, Duchess of Cameridge, hiece of the Landgrave of Hesse born, July 25th, 1725; married, in 1818, the Duke of Cameridge, by whom

Augusta Wihelmins Louiss, DUCHESS OF CAMBRIDGE, niece of the Labograve or Hesse, born July 25th, 1795; married, in 1818, the Duke of Cambridge, by whom she has issue, George William, Augusta Caroline, and Mary Adelaide.

George Frederick Alexander Charles Ernest Augustus, K.G., only child of the King of Hanover, Prince Royal of Hanover, cousin to her Majesty; boru May 27th, 1819; married, February, 1843, Princess Mary of Saxe Alteuberg, and has a row has a son.

has a son.

George Frederick William Charles, K.G., son of the Duke of Cambridge, cousin
to her Majesty, born March 26th, 1819.

Augusta Caroline Cbarlotte Elizabeth Mary Sophia Louisa, daughter of the
Duke of Cambridge, and cousin to her Majesty, born July 19th, 1822; married,
June 28th, 1843, Frederick, Hereditary Graud Duke of Mecklenburg Strelitz.

Mary Adelaide Wilhelmian Elizabeth, daughter of the Duke of Cambridge, and
cousiu to her Majesty, born November 27th, 1832.

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	Lord Steward		Earl Fortescue
	Lord Chamberlain		Marquis of Breadalbane, K.T.
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	Master of the Horse		Duke of Norfolk
	Clerk Marshal and Chief Equerry		Lord Alfred Paget
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	Comptroller of the Household		Right, Hon. W. S. Lascelles
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	Sub-Almoner		Rev. G. Goodenough, D.D.
ŀ	Clerk of the Closet		Bishop of Chester
	Master of the Buckhonnds		Earl of Bessborough
l	Comptroller of Accounts		Sir William Martins
ı	Master of the Household		Major-General Bowles
Ì	Captain of the Yeomen of the Guard		Marquis of Donegal
	Captain of Gentlemen-at-Arms		Lord Foley
	T. T. T. C. C. C. C. C. C. C. C. C. C. C. C. C.		Earl of Listowel, Lord Came
	Y 3 1 777 414	- 1	Waterpark, Lord Elphinston
	Lords in Waiting	•• 4	Morley, Lord Byron, Lord
			Diolicy, Mora Dyroll, Mora

oys, Lord ne, Earl of Dufferln, Marquis of Ormonde Mistress of the Robes

The Duchess of Sutherland

Countess of Mount-Edgecumbe, Mar-Countess of Mount Edgecumbe, Marchionessof Douro, Countess of Desart, Countess of Gainsboro', Countess of Charlemont, Viscountess Jocelyn, Viscountess Canning, Lady Portman Duchess of Norfolk.
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Sir J. C. Hobhouse
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Board Clerk and Accountant, Mr. Hugh

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CIVIL DEPARTMENT, SOMERSET HOUSE.
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The Right Honourable Thomas Farncone, Bassishaw. SHERIFFS

Elected 24th June—Sworn in 28th September.
Wm. Lawrence, Esq., Alderman. | Douald Nicoll, Esq. rman. UNDER-SHERIFFS. D. W. Wire, Esq.

J. J. Millard, Esq.

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Challis, Thomas, Esq., Cripplegate; 32, Wilson-street, Finsbury	1843
Sidney, Thomas, Esq., M.P., Billingsgate; 8, Ludgate-hill	1844
Moon, F. G., Esq., Portsoken; 20, Threadneedle-street	1844
Salomons, David, Esq., Cordwainer; I, Shorter's-court	1848
Finnis, Thomas Quested, Esq., Tower; Tower-street	1848
Lawrence, William, Esq., Bread-street, 30, Bread-street	1848
Carden, William, Esq., Dowgate; 2, Exchange Buildings	1849
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Thompson, W., Esq., M.P., Cheap; Upper Thames-street	1821
Key, Sir John, Bart., Langbourn, 3, Abchurch Lane	1823
Laurie, Sir Peter, Kut., Aldersgate; 7, Park-square, Regent's-park	1826
Farebrother, C., Esq., Lime-street; 6, Lancaster-place, Strand	1826
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Kelly, T., Esq., Farringdon Within; 17, Paternoster-row	1830
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Magnay, Sir William, Bart., Vintry; College-hill	1838
Gibbs, Michael, Esq., Walhrook; 33, Walbrook	1838
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Sir James Duke, M.P., Farringdon Without	1840

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